

09/198, 779

<110> Bledig, Stefan A.
Byrum, Joseph R.
Liu, Jingdong

<120> Nucleic Acid Molecules And Other Molecules Associated With The
Methionine Synthesis And Degradation Pathways

<130> 04983.0002.US01/38-21(15077)B

<140> 09/198,779

<141> 24-NOV-1998

<160> 3204

<210> 1

<211> 235

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1

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tnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnca ggttcatcaa gaccgccgca 180
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<210> 2

<211> 313

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 2

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tgnannaggc gcancccgac aagctgtgcg accaggtgtc ggacgccgtg nttgacgcnt 180
gcctcncnca gnaccccgac ancaangtng cctgncacan gtgcaccaag accaactnng 240
tgatggtgtt cggcgagntn acgaccaagg cgaccgttga ctannagaag atcgtngggn 300
acacntgccg cga 313
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<210> 3
 <211> 77
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 3

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 tacngtggnc tacnaga 77

<210> 4
 <211> 279
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 4

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 nnncnannan ngnnnantgc agnngncgnt atntannaag gcacnatncn ttgatgtctg 120
 cgatgacacg gactattctt ggagagcaaa gggcttccat gagcaagcaa aagctgccgg 180
 tgttccggct attactactg ctggcatcta tccaggagtt agcaatgtga tggctgctga 240
 cttgtacatg tgccagaagt gaaaatgnga acctgaaga 279

<210> 5
 <211> 211
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 5

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 gcncgcngct gcctcgtgca ggtgtacgta cnccatnggn tggccggann ccctgnccgt 120
 gttcgtnaac tcgtacgagc accggcacgn tnaangncaa ggagatcntc aanatcntna 180
 naggagaact tcgacttcag gcccgggatg a 211

<210> 6
 <211> 266
 <212> DNA
 <213> Zea mays

<400> 6

gtctgtttttt tttccccatt aattgtcaat ctacaattca aatcacattc acaatgggta 60

gcgtcagcca caagacagga actttcctgt tcacctccga gtccgtaggt gaaggtcacc 120

ctgacaagat cgctgatcag gtctctgacg ccgtttctga tgcctgcttg gccgaggacc 180

ctctctccaa agtcgcttgc gagactgcta ccaagaccgg tatgatcatg gtcttcggtg 240

aaatcaccac caaagccaag ctcgat 266

<210> 7

<211> 168

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 7

gggggcgttt ccncagttc tgtggngct accgtgtagn ntcgtcgcc gatncacgn 60

tctaangntg agtcggtcna caacgacgan atcgccgnng acctcangga gcacgtcnnc 120

anncncgtga tgnctgataa gtacctcgac gagaagacca tcttncac 168

<210> 8

<211> 570

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 8

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cgaacacgn tccgccacg cgtccgcca cgcgtccga ctagttctag atggcggtgc 120

gctttctccg gcaaggaccc aaccaagggt gaccgcagcg gaggctatgt cgcgaggagg 180

ctgccaaagag catcgtcgcc agcggccttg ctgcgcgcgc catcgtccag gtgtccacgc 240

catcggcgtg cccgagcctc tctccgttgt tttgtcgaca acttacggca accggcgcca 300

ttccccgaca aggagattc ctcaaagatt gtcaaaggga gaaatttcga atttaagggc 360

cttggaatg attaataat caaacctttg aacctccaaa gaaaaanggc gggaaacngg 420

cggctaacct cnaanaacgg gcaagcctaa tggggcaact tcggaaagg gaaaccctgg 480

actttcacct gggaaagggt ggtgaaaacc cactcaaant cggggggaaa actttcggcc 540

tnaaaggggg gccttttttt tnaataaana

570

<210> 9
<211> 473
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 9

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tccgcgtgca naccgtgctc atctccaccc agcacancga nccgtggga acgncganc 180
nccgcnngnn tcnaggggna cgtcatcaag cccgtgatcc ctgngacgtn cctcngaga 240
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cggcctcacc ngccgcnnga tcatctcgg gcnatncgg cngctgggga gccccttttt 360
tggcgcttc tcnngnnng gncctagca ncggtngacc gcanccggcg ctantgnccc 420
tnncaggccn ccancannca tcttggccag cggcctcngc ccggnccgncn cct 473

<210> 10
<211> 428
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 10

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ntgntncacc tcaaccgctc ngggcgcttn ntcctcngcg ggccccacgg tgactcctnn 120
ctcaccggcc ancaagatca tcatngacac ctacggcnn cggggagccc acnccgnggg 180
cgcttcttc ggnaaggacc ccaccaaggt gnaccnnaan ggggcctacn tcgccnnnca 240
tgncgtcaag agcattgtgg ccagncgcct nttncnagc ttgctcgtgc aggtgtacta 300
cgncatcggc gtgcctgaan cnccttcant nttcgttgaa ttctanagna accgggacca 360
ttcccgacaa gganaatctt aaagatngtt aangatnaac tttncctcaa ggncnggnt 420
gatcacca 428

<210> 11

<211> 87
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 11

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 gatntgnccc tngcttatca ttttact 87

<210> 12
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 12

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 acacctgccc cgagatctgg ttcacctccn acnacntggg ggctcgaccc caccnctcaa 120
 ggtgcttggt aacatttaca ncaatcccc acattcccaa ggcnttcacn ggcactttaa 180
 caaaacgncc naaggaaaat cggccccgcn aacaaagcca aatttttcgg ttccccaccc 240
 ancanacncc caacttattc cccttaacca cctgcttgca ccaaactttt tnnncnccct 300
 tantcgaagt tcnnaaagga cngnaccttt cctttgttaa accccaaagn aaaaaccaa 360
 tttaccggtt nantntntta aaaaaaggcc gcncctntt nnccttttc cnttcacaac 420
 cctnttttat tttttannca aaaa 444

<210> 13
 <211> 513
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 13

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 cgcgtccgaa ggggtgtgcat ggccacttca ccaagcgccc cgaggagatt ggagctggtg 120
 accagggaca catgttcggg tatgcgaccg atgagacccc tgagttgatg cccctcagcc 180
 atgtccttgc caccaagcta ggtgctcgtc tcaccgaggt ccgcaagaac ggaacctgcc 240
 cctggctcag gcctgatggg aagaccaggt tgacagtcga gtaccgcaat gaggggtggtg 300

ccatggtccc catccgtgtc cacaccgtcc tcatctccac ccagcacgac gagacagtga 360
ccaatgatga gatcgtgtct gacctgaagg agcatgtcat caagcctgtc atccctgagc 420
agtaccttga cgagaagacc atcttccacc ttaacccatc tggccgcttt gtcattggtg 480
gacctcaang cgaatctggg ctcaatgggc nca 513

<210> 14
<211> 520
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 14

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tcgaccacag cgtccgtgat ccctgagaag tacctcgacg agaagacat cttccacctc 120
aaccggtccg ggcgcttcgt catcggcggg cccacggtg acgccggcct caccggccgc 180
aagatcatca tcgacacgta cggcggctgg ggagcccacg gcggtggcgc cttctccggc 240
aaggacccca ccaaggtgga ccgcagcggc gcctacgtgg ccaggcaggc cgccaagagc 300
atcgtggcca gcggcctcgc ccgccgctgc ctctgtcagg tgcgtacgc catcggcgtg 360
ccggagcccc tgtccgtgtt cgtcaactcg tacggcaccg gcacgatccc cgacaaggag 420
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gacctgaaag aaaggcngna acanggtcat taaaaaccgc 520

<210> 15
<211> 511
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 15

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acgcgtccgc aagacccttg agctgatgcc cctcagccat gtccttgcca ccaagcttgg 120
tgctcgtctc acggagggttc gcaagaatgg aacctgcccc tggctcaggc ccgatgggaa 180
gacccaggtg acagtggagt accgcaacga ggggtggcgc atggttccca tccgtgtgca 240
cacagtcctc atctctaccc agcacgacga gacagtcacc aacgacgaga ttgctgtgta 300

cctgaaggag cacgtcatca agccagtcac ccccgagcag tacctcgacg agaagacaat 360
 cttccacctc aaccggtctg gccgcttcgt catcggcgga cctcacggcg acgctggcct 420
 cactggccgg aagatcatca tcgacaccta cgggtggctgg ggaacccacg gcggggggcg 480
 cttctccggc aaggacccga caaggtggac c 511

<210> 16
 <211> 483
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 16

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 gccatggtcc ccatccgtgt ccacaccgtc ctcatctcca ccagcacga cgagacagga 120
 ccaatgatga gatcgctgct gacctgaagg agcatgtcat caagcctgtc atccctggca 180
 gtaccttgac gagaagacca tcttcacct taacccatct ggccgctttg tcattgtgga 240
 cctcacggcg atgctggcct cactggccgc aagatcatca ttgacaccta cgggtgctggg 300
 gagcccatgg tgggtggcgt ttctccggca aggacccaac caaggttgac cgcacggagc 360
 ctatgtcgca aggagggtg ccaagagcat cgtcgccagc ggccttgctc gcccgccatc 420
 gtccagggtgt cttacgcat cggcgtgcc gaacctctct ccgtgttcgt cgcacgtacg 480
 gna 483

<210> 17
 <211> 454
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 17

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 gtgacggtgg agtacgtgaa cgagggcggc gccatggtgc ccgtccgcgt gcacaccgtg 120
 ctcatctnca ccagcacga cgagaccgtc accaacgacg agatcgccgc cgacctcaag 180
 gagcacgtca tcaagccgt gatccctgag aagtacctng acgagaagac catcttcac 240
 ctnaaccgt ccgggcgctt cgtcatcggc gggcccccacg gtgacgccgg cctaccggcg 300

caagatcatc atcgacacgt acggcggctg gggagcccac ggcggtggcg ctttcttcng 360
caaggacccc accaangtgg accgcaacgg ngcctacgtg ggcaggcang ccgncaaaaag 420
catngtggcc aagcgggctt gcccgncgtt gctt 454

<210> 18
<211> 474
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 18

ccacgcgtcc gcccacgcgt ccggaccaag gcgaccgtgg actacgagaa gatcgtgcgc 60
gacacctgcc gggngatcgg gttcacctgn gncgacgtgg gcctcgacgc cnaccgctgc 120
aaggtgctgg tgaacatcga gcagcagtcc cccgacatcg cgcanggcgt gcacgggcac 180
ttcacgaagc ggcccagga gatcggcgcg ggcnaccagg gccacatgtt cgggtacgcc 240
accgachaga cccccgagct gatgccgctc agccacgtgc tggccaccaa gctggggcgcg 300
cgcctcaccg aggtgcncan gaacggcacc tgcncctggc tgaggcccga cggcaagacc 360
caggtgacng tggagtagct gaacnagggc ngctccatgg tgcccgtccg ngtgcacacc 420
ttgctnatct tcaccagna ctacnagacc gtancaacta ctagatcgnc ttnt 474

<210> 19
<211> 435
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 19

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tgctgaggac cctgacagca aggttgcttg tgagacctgc accaagacca acatggcat 120
ggcttttggg gagatcacca ccaaggccaa tggtgactac gagaagattg tcagggagac 180
ctgccgcaac attgggttttg tgtcaaacga tggtgggctt gacgccgacc actgcaaggt 240
gctcgtgaac attgagcagc agtcccctga tattgctcan ggtgtgcatg gncacttacc 300
aagcgccccg aggagattgg agctggtgac caggacaca tggtcgggta tgcgaccgat 360
gagacccctg agttgatgcc cctcaccatg tccttggcac caagctangt gctcgtctta 420

ccgangtccg caaag

435

<210> 20
<211> 422
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 20

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acggtggagt acgtgaacga gggcggcgcc atggtgcccg tccgcgtgca caccgtgctc 120
atctccaccc agcacgacga gaccgtcacc aacgacgaga tcgccgccga cctcaaggag 180
cacgtcatca agcccgtgat ccctgagaag tacctcgacg agaagaccat cttccacctc 240
aaccggtccg ggcgcttcgt catcggcggg cccacgggtg acgccggcct caccggccgc 300
aagatcatca tcgacacgta cggcggctgg ggaaccaag gcggtggcgc cttctccggc 360
aaggacccaa caangtgga cgcaangggg gccaanttgg caaggaagcc gcaagaanat 420
ct 422
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<210> 21
<211> 488
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 21

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cncgaataaa gagcagcagc gcaagaggtc ggtagagcga gaagaaggca atggcggcga 120
gagcttcctt ttcacctcgg agtccgtgaa cgaggggcac cccgacaagc tgtgcgacag 180
gtgtcggacg ccgtgcttga cgcattgcctc gcgcaggacc ccgacagcaa ggtggctgcg 240
agacctgcac caagaccaac atggtgatgg tggttcggcg gatcacgacc aaggcaccgt 300
ggactacgag aagatcgtgc gcgacacctg ccgcgagatc gggttcacct ccgagacgtg 360
ggcctcgacg ccgaccgctg caaggtgctg gtgaacatcg agcagcaatc cccgacatcg 420
cgcaaggcgt gcacgggcac ttcacgaaac ggnccgagga gatnggcgcn gggacaaggg 480
ccacatgt 488
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<210> 22
 <211> 491
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 22

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gggnnnnnngn aanttttctt gcccgccagg taccaatcaa gaattcncgg gtcgacccac 60
gcntccngat cgctgctgac ctgaaggagc atgtcatcaa gcctgtcatc cctgagcagt 120
accttgacga gaagaccatc ttccacctta acccatctgg ccgctttgtc attggtggac 180
ctcacggcga tgctggcctc actggccgca agatcatcat tgacacctac ggtggctggg 240
gagcccatgg tgggtggcgct ttctccggca aggacccaac caaggttgac cgcagcggag 300
cctatgtcgc aaggcaggct gccaagagca tcgtcgccag cggccttgct cgccgcgcca 360
tcgtccaggt gtcttacgcc atcggcgtgc ccgagcctct ctccgtgttc gtcgacacgt 420
acggcaacgg cgccattccc gacaaggaga ttctcaagaa tgtcaaggan aacttcaatt 480
caaggctggg a 491

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<210> 23
 <211> 439
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 23

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attggtggac ctcacggcga tgctggcctc actggccgca agatcatcat tgnacacntac 60
ggtggctggg gagcccatgg tgggtggcgct ttctccggca aggacccaac caaggttgac 120
cgcagcggag cctatgtcgc aaggcaggct gccaagagca tcgtcgccag cggccttgct 180
cgccgcgcca tcgtccaggt gtcttacgcc atcggcgtgc ccgagcctct ctccgtgttc 240
gtcgacacgt acggcaccgg cgcgatcccc gacaaggaga tcctcaagat tgtcaaggag 300
aacttcgatt tcaggcctgg catgatcatc atcaaccttg acctcaagaa aggcggcaac 360
gggcgctacc tnaagacggn ggnctacggc actttggaag ggacgacctn acttncctng 420
ganggggggg aancctta 439

```

<210> 24
 <211> 502
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 24

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cgtccggncc aatgtcgact acgagaagat tgtcagggag acatgccgca acattggttt 120
cgtgtcgaac gatgtcgggc ttgacgctga ccactgcaag gtgcttgtga acattgagca 180
gcagtcccct gatattgctc aggggtgtgca cggccacttc accaagcgcc cggaggagat 240
tggagctggt gaccaggggc acatgttttg gtatgcgact gacgagacct ctgagctgat 300
gccctcagc catgtccttg ccaccaagct tgggtgctcgt ctacggaggg ttcgcaagaa 360
tggaacctgc ccctggctca ggcccgatgg gaagaccagc gtgacagtgg agtaccgcaa 420
cgagggtggc gccatggttc ccatccgtgt gcacacagtc ctcatctcta cccaacacga 480
cgaagacagt caacaaacga cg 502
```

<210> 25
 <211> 476
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 25

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ggnnnnntnnt nagnngggggg attaatgna tgctntaccg gtccggaatt cccgggtcga 60
cccacgcgtc cgccgaggtc cgcaagaacg gaacctgccc ctggctcagg cctgatggga 120
agaccaggt gacagtcgag taccgcaatg aggggtggtgc catggtcccc atccgtgtcc 180
acaccgtcct catctccacc cagcacgacg agacagtgc caatgatgag atcgctgctg 240
acctgaagga gcatgtcatc aagcctgtca tccctgagca gtacctgac gagaagacca 300
tcttcacact taaccatct ggccgctttg tcattggtgg acctcacggc gatgctggcc 360
tcaactggccg caagatcatc attgacacct acgggtggctg gggagcccat ggtggtggcg 420
ctttctccgg caaggaccca accaagggtg accgcagcgg acctatgtcg caaggc 476
```

<210> 26
 <211> 393

<212> DNA
 <213> Zea mays

<400> 26

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cctgcaccaa gaccaacatg gtcatggtct ttggtgagat caccaccaag gccaatgttg    60
actacgagaa gattgtcagg gagacctgcc gcaacattgg ttttgtgtca aacgatgttg    120
ggcttgacgc cgaccactgc aaggtgctcg tgaacattga gcagcagtcc cctgatattg    180
ctcaggggtgt gcatggccac ttcaccaagc gccccgagga gattggagct ggtgaccagg    240
gacacatgtt cgggtatgcg accgatgaga cccctgagtt gatgcccctc agccatgtcc    300
ttgccaccaa gctaggtgct cgtctcaccg aggtccgcaa gaacggaacc tgcccctggc    360
tcaagcctga tgggaaaaac caaggtgaca gtc                                     393
```

<210> 27
 <211> 435
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 27

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cgagacagtg accaatgatg agatcgctgc tgacctgaag gagcatgtca tcangcctgn    60
catccctgag cagtaccttg acgagaagac catcttccac cttaacccat ctggccgctt    120
tgtcattggt ggacctcacg gcgatgctgg cctcactggc cgcaagatca tcattgacac    180
ctacngtggc tggggagccc atggtggtgg cgctttctcc ggcaaggacc caaccaaggt    240
tgaccgcagc ggagcctatg tcgcaaggca ggctgccaa agcatcgtnn ccagcggcct    300
tgctcgccgc gccatcgtec aggtgtctta cgccatcggn gtgcccgagc ctctctccgn    360
gttcgtngac acgtactgna ccggcctatc ccnacaang agatcttaag attgtcaagg    420
agaactttta ttcca                                     435
```

<210> 28
 <211> 435
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 28

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agcccacggc gggggcgccct tctccggcaa ggaccccacc aaggtggacc gcagcggggc    60
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ctacgtcgcc aggcaggccg ccaagagcat cgtggccagc ggcctcgccc gccgctgcct 120
cgtgcagggtg tcttacgcca tcggcgtgcc ggagcccctg tccgtgttcg tcgactccta 180
cggcaccggg accatccccg acaaggagat cctaaagatc gtcaaggaga acttcgactt 240
caggccaggg atggtcacca tcaacctoga cctcaagaag ggcggcaaca ggttcatcaa 300
gaccgccgca tacggncaact ttggccgtga cgacgccgac ttcacctggg aggtgggtcaa 360
gccctaag aangcattcc gcttaagaat gtattgggaa gttcactgga catgaagttc 420
atcttcgtct ggctt 435

<210> 29

<211> 484

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 29

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gcanntnccg ntgactgagg cccgacggca agaccaggt gacggtggag tacgtgaacg 120
agggcggcgc catggtgccc gtccgcgtgc acaccgtgct catctccacc cagcacgacg 180
agaccgtcac caacgacgag atcgccgccc acctcaagga gcacgtcatc aagcccgtga 240
tccctgagaa gtacctcgac gagaagacca tcttcacact caaccgtcc gggcgcttcg 300
tcatcgggcg gcccacggt gacgccggcc tcaccggccc caagatnadc atcgacacgt 360
acggcgggtg gggagcccac ggcggtggcg cttctccgg caaggacccc accaaagggtg 420
gaccgcaacg gcgcctaagn nggccaaggc agggccgcca annagnnttc ntgncaagcg 480
ggng 484

<210> 30

<211> 416

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 30

ctcacagagg ttgcgaagaa tggaacctgg ccttggtca ggcgatgg gaagaccag 60
gtgacagtgg agtaccgcaa cgagggtggc gccatggttc ccatccgtgt gcacacagtc 120

ctcatctcta cccagcacga cgagacagtc accaacgacg agattgctgc tgacctgaag 180
gagcacgtca tcaagccagt catccccgag cagtacctcg acgagaagac aatcttccac 240
ctcaaccggt ctggccgntt cgtcatcggc ggacctnacg gcgacgccgg cctactggcc 300
gnaagatcat catcgacacc tacggtggct ggggagccca cggcgggggc gccttcttcg 360
gcaaggaccc gaccaangtg gaccgcacgg ggcctacgtn cgaggnaagc ttgcna 416

<210> 31
<211> 484
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 31

attggtggac ctcacggcga tgctggcctc actggccgca agatcatcat tgacacctac 60
gggggctggg gagcccatgg tgggtggcgt ttctccggca aggacccaac caagggtgac 120
cgcagcggag cctatgtcgc aaggcaggct gccaaagagca tcgtcgccag cggccttgct 180
cgccgcgcca tcgtccaggt gtcttacgcc atcggcgtgc ccgagcctct ctccgtgttc 240
gtcgacacgt acggcaccgg cgcgatcccc gacaaggaga tcctcaagat tgtcaaggag 300
aacttcgatt tcaggcctgg catgatcatc atcaaccttg acctcaagaa aggcggcaac 360
gggccgctac ctnaagacgg cggnctacgg gcacttttgg aaagggacca acctgacttn 420
acctgggaag ggggtgaacc cttaagtcgg agaaaccctt ttgctaaggg ggcctttttt 480
ttaa 484

<210> 32
<211> 477
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 32

aactttattg ccaggcacgg taaangaatc ccgggtcgac ccacgcgtcn gaggaccccc 60
caagggtggac cgcagcggcg cctacgtggc caggcaggcc gccaaagagca tcgtggccgc 120
ggcctcgccc gccgctgcct cgtgcagggt tcgtacgcca tcggtgtgcc ggagccctgt 180
ccgtgttcgt cgactcgtac ggcaccggca cgatccccga caaggagatc ctcaagtcgt 240

gaaggagaac ttcgacttca ggcccgggat gatcagcatc aacctcgacc tgaagagggc 300
 ggcaacaggt tcatcaagac cgccgcttac ggccatttcg gccgtgacga cgccacttca 360
 cctgggaagt ggtgaagccc ctcaagttcg acaaggcatc cggcttaang ttggaatnnt 420
 caacggtggg gcatgaggac taccttcctc cnggctctgc tgttacctgc aacattg 477

<210> 33
 <211> 488
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 33

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 cgtccgcgtt tgcctcttct ccctcttgcc ggggtcccgaa taaagagcag cagcgcaaga 120
 gtcggtagag cgagaagaag gcaatggcgg ccgagagctt ccttttcacc tcggagtccg 180
 tgaacgaggg gcaccccgac aagctgtgcg accaggtgtc ggacgccgtg cttgacgcat 240
 gcctcgcgca ggaccccgac agcaaggtgg cctgcgagac ctgcaccaag accaacaatg 300
 tgatggtgtt cggcgagatc acgaccaagg cgaccgtgga ctacgagaag atcgtgcgcg 360
 acacctgccg cgagatcggg ttacactccg acgacgtggg cctcgacgcc gaccgtgca 420
 aggtgctggt gaacatcgag caacagtccc cgacatcgcg caaggcgtgc acgggcactt 480
 cacgaaac 488

<210> 34
 <211> 480
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 34

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 acgntccgc gtttgctct tctccctctt gccgggtccg aataaagagc agcagcgcaa 120
 gaggtcggta gagcgagaag aaggcaatgg cggccgagag cttccttttc acctcgaggt 180
 ccgtgaacga ggggcacccc gacaagctgt gcgaccaggt gtcggacgcc gtgcttgacg 240
 catgcctcgc gcaggacccc gacagcaagg tggcctgcga gacctgcacc aagaccaaca 300

tggatgatggg gttcggcgag atcacgacca aggcgaccgt ggactacgag aagatcgtgc 360
gcgacacctg ccgcgagatc gggttcacct ccgacgacgt gggcctcgac gccgaccgct 420
gcaaggtgct ggtgaacatc gagcagcagt ccccgacat cgcgcaaggc gtgcacgggc 480

<210> 35
<211> 453
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 35

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tnggtagagc gagcgagaag aaggcaatgg cggcgagagc cttcctgttc acctcggagt 120
ccgtgaacga ggggcaccca gacaagctgt gcgaccaggt gtcggacgcg gtgctggacg 180
cctgcctggc gcangacccc gacagcaagg tggcctgcna gacctgcacc aagacgaaca 240
tggatgatggg gttcggcgag atcaccacca aggcgagcgt ggactacgag aagatcgtgc 300
gcgacacctg ccgcgagatc gggttcacct tcgacgacgt ggggctcgac nccnaccgct 360
gcaaggtgct ggtgaacatc gagcagcagt ccccgacat cgcgcaaggc gtgcacggca 420
ctttacgaaa ccggcccgcg gagatcggcc cnt 453

<210> 36
<211> 505
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 36

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cgacccacgc gtccgcccgt tcgcctcttc tncctcctcc tgcgggtcc ttaataaaga 120
gcagcagcgc aagaggttgg tagagcgagc gagaagaagg caatggcggc ggagagcttc 180
ctgttcacct cggagtccgt gaacgagggg caccagaca agctgtgcga ccaggtgtcg 240
gacgcgggtg tggacgcctg cctggcgcan gacccgaca gcaaggtggc ctgcgagacc 300
tgcaccaaga cgaacatggg gatggtgttc ggcgagatca ccaccaaggc gagcgtggac 360
tacgagaaga tcgtgcgcga cacctgccgc gagatcgggt tcacctncga cgacgtgggg 420

ctcgacgccg accgctgcaa ggtgctggtg aacatcgagc ancagtcccc cgacatcgcg 480
cagggcgtgc acgggcactt tacga 505

<210> 37
<211> 447
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 37

gcagtcccct gatattgctc aggggtgtgca cggccacttc accaagcgnc ccgaggagat 60
tggagctggt gaccaggggc acatgtttgg gtatgcgact gacgagaccc ctgagctgat 120
gccctcagc catgtccttg ccaccaagct tgggtgctcgt ctcacagagg ttcgcaagaa 180
tggaacctgc ccctggctca ggcccgatgg gaagaccag gtgacagtgg agtaccgcaa 240
cgagggtggc gccatggttc ccatccgtgt gcacacagtc ctcatctcta cccaacacga 300
cgagacangt caccaacgac gaagattgct gctgacctga aaggaacaac gtcataaaac 360
caagtcatnc ccgaacagta cctttgacga gaagacaatc tttcanctta acccgtctgg 420
nccntttgtc atnngnggac ctnaacg 447

<210> 38
<211> 420
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 38

ggncgctttg tcattggtgg acctcacggc gatgctggcc tcaactggccg caagatcntc 60
atngacacct acggtggctg gggagcccat ggtggtggcg ctttctccgg caaggaccca 120
accaaggttg accgcagcgg agcctatgtc gcaaggcagg ctgccaagag catcgtcgcc 180
agcggccttg ctgcgcgcgc catcgtccag gtgtcttacg ccatcggcgt gcccgagcct 240
ctctccgtgt tcgtcgacac gtacggcacc ggcgcgatcc ccgacaagga gatacctcaag 300
attgtcaaag gagaacttcg atttcaggcc tggcatgatc atcatcaacc ttgacctcaa 360
gaaaggcggc aacggggcgt tancttaaga acggcggnct acgggcactt ttggaangga 420

<210> 39
 <211> 499
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 39

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cccatctggc cgctttgtca ttggtggacc tcacggcgat gctggcctca ctggccgcaa 60
gatcatcatt gacacctacg gtggctgggg agcccatggg ggtggcgctt tctccggcaa 120
ggacccaacc aaggttgacc gcagcggagc ctatgtcgca aggaggctg ccaagagcat 180
cgtcgccagc ggccctgtct gccgcgccat cgtccagggtg tcttacgcca tcggcggtgcc 240
cgagcctctc tccgtgttcg tcgacacgta cggcaccggc gcgatccccg acaaggagat 300
cctcaagatt gtcaaggaga acttcgattt caggcctggc atcatcatca accttgacct 360
caagaaaggc ggcaacgggc gctacctnaa gacggcgggc tacggcactt tggaagggac 420
gaccctgact tcacctggga ggtggtgaaa ccaactcaaag tcggagaaac cttntgctaa 480
agcnggcttt tttttaaaa 499

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<210> 40
 <211> 494
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 40

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ggnnnnnnnn nnngttaact tntccgccgg caggtaangg tcaagaattc ccgggtcgac 60
cacgcgtccg ctncctcttg ccggtcccga ataaanagca gcagcgang aggtcgggtga 120
gcgagaagaa ggcaatggcg gccgagagct tccttttcac ctcggantcc gtgaacgggg 180
gcaccccgac aagctgtgcg accaggtgtc ggacgccgtg cttgacgcat gcctcggcag 240
gaccccgaca gcaangtggc ctgcgagacc tgcaccaaga ccaacatggg gatgggttcg 300
gcgagatcac gaccaaggcg accgtggact acgagaagat cgtgcgcgac acctccgcga 360
gatnggggtt acctccgacg aactgggcct cnaacgccga accgctgcaa ggtctggtga 420
acatcnanca gcatttcccc gacatcgcgc agggcntgca cgggcacttc acaagcngcc 480
cgaggagatc ngcg 494

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<210> 41
 <211> 499
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 41

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 gtccgnccac gcgtccgcat catcgacacg tacgngggct ggggagccca cggcgggtggc 120
 gcctnctccg gcaaggaccc caccaaggtg gaccgcagcg gcgcctacgt ggccaggcag 180
 gccgccaaga gcatcgtggc cagcggcctc gcccgccgct gcctcgtgca ggtgtcgtac 240
 gccatcggcg tgccggagcc cctgtccgtg ttcgtcgact cgtacggcac cggcacgac 300
 cccgacaagg agatcctcaa gatcgtgaag gagaacttca acttcaggcc cgggatgac 360
 agcatcaacc tcgacctgaa gaanggcggc aacagggttca tcangaccga cgctacggcc 420
 acttcggccg tgacgacgcc gactttacct gggaagtggg gaagcccctt aagttccaca 480
 aggattnggt ttaagggtg 499

<210> 42
 <211> 325
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 42

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 gtccgcgtgc acaccgtgt catctccacc cagcacgacg agaccgtcac cnaacgacga 120
 gatcgccgcc gacctcaagg agcacgtcat caagcccgtc atcccggaga ggtacctgga 180
 cgagaagacc atcttcacc tcaaccgctc ggggcgcttc gtcacggcg ggccccacgg 240
 ggacgccggc ctcaccggcc gcaagatcat catcgacacc tacggcggct ggggagccca 300
 cggcgggggc gccttctccg gcaag 325

<210> 43
 <211> 319
 <212> DNA
 <213> Zea mays

 <400> 43

agcggccccga ggagatcggc gcgggcgacc agggccacat gttcgggtac gccaccgacg 60
 agacccccga gctgatgccg ctgagccacg tgctggccac caagctgggc gcgcgcctca 120
 ccgaggtgcg caagaacggc acctgcgcct ggctgaggcc cgacggcaag acccaggtga 180
 cgggtggagta cgtgaacgag ggcggcgcca tgggtgcccg cgcgtgcac accgtgctca 240
 tctccacca gcacgacgag accgtcacca acgacgagat cgccgccgac ctcaaggagc 300
 acgtcatcaa gcccgtgat 319

<210> 44

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 44

ggaacctgcc cctggctnag gcccgatggg aagacccagg tgacagtgga gtaccgcaac 60
 gaggggtggcg ccatgggtcc catccgtgtg cacacagtcc tcatctctac ccagcacgac 120
 gagacagtca ccaacgacga gattgctgct gacctgaagg agcacgtcat caagccagtc 180
 atccccgagc agtacctnna cnagaagaca atcttcacct caacccgtnt ggccgcttcg 240
 tcatcgggcg accttacggc gacnccggcc tnaactggccg gaaagatcat natcgacacc 300
 tacgggtggct ngggagccca cggcgggggc gccttnttcg gcaaggaccc gaccaaagtt 360
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 nccgcggnc 429

<210> 45

<211> 315

<212> DNA

<213> Zea mays.

<400> 45

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 tgagccacgt gctggccacc aagctgggag cggcctcac cgaggtgagc aagaacggca 120
 cctgcgcctg gctgaggccc gacggcaaga cccaggtgac ggtggagtac gtgaacgagg 180
 gcggcgccat ggtgcccgtc cgcgtgcaca ccgtgctcat ctccaccag cacgacgaga 240

ccgtcaccaa cgacgagatc gccgccgacc tcaaggagca cgtcatcaag cccgtgatcc 300
ctgagaagta cctcg 315

<210> 46
<211> 474
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 46

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anaannccct agagtnagtc gtttaacggc gggggcgccct tctccggcaa ggacccgacc 120
aaggtggacc gcagcggggc ctacgtcgcg aggcaggctg ccaagagcat cgtcgccgcc 180
ggcctcgccc gccgtgccat cgtccaggtc tcctacgcca tcggcggtgcc cgagcccctg 240
tcggtgttcg tggacacgta cggcaccggc gcgatccccg acaaggagat cctgaagatc 300
gtgaaggaga acttcgactt caggcccggc atgatcatca tcaacctcga cctcaagaaa 360
ggcggcaacg ggcgctacct caagacggcg gcctacgggc actttgggag ggacgaaccc 420
gacttcacct gggaagtngt taaaccccc naaggcggaa aanccttntt ctgg 474

<210> 47
<211> 410
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 47

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cgctgcaagg tgctggtgaa catcgagcag cagtcccccg acatcgcgca nggcgtgcac 120
gggcacttca cgaagcggcc cgaggagatc ggcgcggggc accagggcca catgttcggg 180
tacnccaccg acnagacccc cgagctgatg ccgctcagcc acgtgctggc caccaagctn 240
ggcncgcgcc tcaccgaggt tccgcaagac gggnacctgc gcctggntga nggcccgcg 300
gcaagaccaa ggtnacggtg gactacgtga actagggcgg ctccattggt gccctccgcg 360
ttcaaaaccg tgctaantnc accaagnact actaagaccg tnnccaacaa 410

<210> 48

<211> 297
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 48

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 gacgagatcg ccgccgacct caaggagcac gtaatcaagc ccgtcatccc gganaggtag 120
 ctggacgaga agaccatctt ccacctcaac ccgtcggggc gcttcgtcat cggcggggccc 180
 cacggggacg ccggcctcac cggccgcaag atcatcatcg acacctacgg cggctgggga 240
 gccacggcg ggggcgcctt ctccggcaag gacccaccca aggtggaccg cagcggg 297

<210> 49
 <211> 438
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 49

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 ggggcncctt ctccggcaag gacccgacca aggtggaccg cagcggggcc tacgtcgga 120
 ggcaggctgc caagagcatc gtcgccgcgc gcctcgcccg ccgtgccatc gtccaggctt 180
 cctacgccat cggcgtgccc gagccccctgt cgggtgttcgt ggacacntac ggcaccggcg 240
 cgatccccga caaggagatc ctgaagatcg tgaaggagaa cttcgacttc angcccggca 300
 tgatcatcat caacctngac ctcaagaaag gcggnnacgg nccgctacct taaanaacgg 360
 nnggcctacg ggcactttgg gaagggaacna accccnattt aacctgggaa gtggttnaac 420
 cccttaaggc ggaaaaaa 438

<210> 50
 <211> 316
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 50

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 ctgcctggcg caggaccccc acagcaaggc ggcntgcgag acntgcacca agacgaacat 120

ggtgatggtg ttcggcgaga tcaccaccaa ggcgagcgtg gactacgaga agatcgtgctg 180
cgacacctgc cgcgagatcg ggttcacctc cgacgacgtg gggctcgacg ccgaccgctg 240
caagggtgctg gtgaacatcg ancagcagtc ccccgacntc gcgcagggcg tgcacgggca 300
nttcacgaag cggccc 316

<210> 51
<211> 339
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 51

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acctgaagga gcacgtcatc aagccagtca tccccgagca gtacctcgac gagaagacaa 120
tcttccacct caaccctgtc ggccgcttcg tcatcggcgg acctcacggc gacgcggctc 180
tcaactggccg gaagatcatc atcgacacct acggtggctg gggagccac ggcggggcg 240
cttctccggc aangaccga ccaagggtga ccgcagcggg gcctacgtcg cgaggcaggc 300
tgccaagagc atcgtcgccg cggcctcgcc gngcgctt 339

<210> 52
<211> 300
<212> DNA
<213> Zea mays

<400> 52

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acgccgaccg ctgcaagggtg ctggtgaaca tcgagcagca gtcccccgac atcgcgcagg 120
gcgtgcacgg gcacttcacg aagcggcccg aggagatcgg cgcggggcgac cagggccaca 180
tgttcgggta cgccaccgac gagacccccg agctgatgcc gctgagccac gtgctggcca 240
ccaagctggg cgcgcgcctc accgaggtgc gcaagaacgg cacctgcgcc tggctgaggc 300

<210> 53
<211> 303
<212> DNA
<213> Zea mays

<400> 53

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cccccgagct gatgccgtga gccacgtgct ggccaccaag ctggggcgcg gcctcaccga 120
ggtgcgcaag aacggcacct gcgcctggct gaggcccgac ggcaagaccc aggtgacggg 180
ggagtacgtg aacgagggcg gcgccatggt gcccgctccg gtgcacaccg tgctcatctc 240
caccagcac gacgagaccg tcaccaacga cgagatcgcc gccgacctca aggagcacgt 300
cat 303

<210> 54

<211> 477

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 54

tatttncccg ccagggtacaa gtcaagaatt cccgggtcga cccacgcgtc cggccacgct 60
ccgcccacgc gtccgcccac gcgtccggcg gggcctacgt cgcgaggcag gctgccaaag 120
catcgtcgcc gccggcctcg cccgccgcgc cattgtccag gtctcctacg ccatcgggtg 180
cccgagcccc ttctgggtgt cgtggacacg tacggcaccg gcgcgatccc cgacaagaga 240
tcctgaagat cgtgaaggag aacttcgact tcaggcccgg catgatcatc atcaactcga 300
cctcaagaaa ggcggcaacg ggcgctacct caagacggcg gcctacgggc acttgggagg 360
gacgaccccg acttcacctg ggaggtgggtg aagcccctca aggcggaaaa acctcttctg 420
caagaagggc ctccccggg tttggaanaa gcttttggtc tggctctggtc tgtctgg 477

<210> 55

<211> 487

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 55

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cgcgccatg cggctcttct ccctcttgcc ggtcccgaat aaagagcagc agcgcaagag 120
gtcggtagag cgagaagaag gcaatggcgg ccgagagctt ccttttcacc tcggagtccg 180

tgaacnaggg gcaccccgac aagctgtgcg accaggtgtc ggacgccgtg cttgacgcat 240
gcctcgcgca ggaccccgac agcaaggtgg cctgcgagac ctgcaccaag accaaccatgg 300
tgatggtggt cggcgaagat cacgaccaag gcgaccgtgg actacgaaga agatcgtgcg 360
cgacacctgc cgcgagatcg ggttcacctc cgacgacgtg ggccctcgacg ccgaccgctg 420
caangtgctg ggtgaacatc gagcagcagt cccccgacat cgcgcaaggc gtgcacgggc 480
acttcac 487

<210> 56
<211> 299
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 56

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gactacgaga agattgtcag ggagacctgc cgcaacattg gttttgtgtc aaacgatggt 120
gggcttgacg ccgancactg caaggtgctc gtgaacattg agcagcagtc ccctgatatt 180
gctcaggggtg tgcattggcca cttaccaag cgccccgagg agattggagc tggtgaccag 240
ggacacatgt tcgggtatgc naccgatgag acccctgagt tgatgccct cagccatgt 299

<210> 57
<211> 315
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 57

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ctgatattgc tcagggtgtg caccggccact tcaccaagcg ccccgaggag attggagctg 120
gtgaccaggg gcacatgttt gggatatgca ctgacgagac ccctgagctg atgcccctca 180
gccatgtcct tgccaccaag cttggtgctc gtctcacggn ggctcgcaag aatggaacct 240
gcccctggct caggcccgat ggggaagacc aggtgacagt ggagtaccgc aacgaagggt 300
gcgcatgggt tccca 315

<210> 58

<211> 328
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 58

cgtctggccg cttcgtcatc ggcgacctc acggcgacgc tggcctcact ggccggaaga 60
 tcatcatcga cacctacggt ggctggggag cccacggcgg gggcgccctc tccggcaagg 120
 acccgaccaa ggtggaccgc agcggggcct acgtcgcgag gcaggctgcc aagagcatcg 180
 tcgccgccgg cctcgcccgc cgtgccatcg tccaggcttc ctacgccatc ggcgtgcccc 240
 anccctgtc ggtgttcgtg gacacgtacg gcaccggcgc gatccccgac aaggagatcc 300
 tgaagatcgt gaaggagaat tcgacttc 328

<210> 59
 <211> 291
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 59

cgagctgatg ccgctgagcc acgtgctggc caccaagctc ggcgcgcgnc tgacggaggt 60
 ccgcaaggac ggcacctgcn cctggctcag gcccgacggc aagacccagg tgacggtgga 120
 gtacgtgaac ganggcggcg ccatggtgcc cgtccgcgtg cacaccgtgc tcatctccac 180
 ccagcacgac gagaccgtca ccaacgacga gatcgccgcc gacctcaagg agcacgtcat 240
 caagcccgtc atcccgga ggtacctgga cgagaagacc atcttcacc t 291

<210> 60
 <211> 305
 <212> DNA
 <213> Zea mays

<400> 60

gggtatgcga ccgatgagac cctgagttg atgcccctca gccatgtcct tgccaccaag 60
 ctaggtgtc gtctcaccga ggtccgcaag aacggaacct gccctggct caggcctgat 120
 gggaagaccc aggtgacagt cgagtaccgc aatgaggggtg gtgccatggt ccccatccgt 180
 gtccacaccg tctcatctc caccagcac gacgagacag tgaccaatga tgagatcgct 240

gctgacctga aggagcatgt catcaagcct gtcacccctg agcagtacct tgacgagaag 300
 accat 305

<210> 61
 <211> 300
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 61

ggcctgcgag acctgcacca agaccaacat ggtgatggtg ttcggcgaga tcacgaccaa 60
 ggcgaccgtg gactacgaga agatcgtgcg cgacacctgc cgcgagatcg ggttcacctc 120
 cgncgacgtg ggcctcgacg ccgnccgctg caaggtgctg gtgaacatcg agcagcagtc 180
 ccccgacatc gcgcagggcg tgcacgggca cttcacgnag cggnccgagg agatnggngc 240
 gggcgaccag ggnacatgt tcgggtacgn caccgacgag acccccgagc tgatgccgct 300

<210> 62
 <211> 558
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 62

gnnnnngtncc cnnnttnnnn tntttgncag nacncttntt cgctgcacg tactcggtcc 60
 ggaattcccg ggtcgaccca cgcgtccgcc cagcgtccg cccacgcgtc cgccacgcg 120
 tccgcccacg cgtccgccca cgcgtccggc ctcttctccc tcttgccggt cccgaataaa 180
 gagcagcagc gcaagaggtc ggtagagcga gaagaaggca atggcggccg agagcttcct 240
 tttcacctcg gagtccgtga acgaggggca ccccgacaag ctgtgcgacc aggtgtcgga 300
 cgccgtgctt gacgcatgcc tcgcgagga ccccgacagc aaggtggcct gcgagacctg 360
 caccaagacc aacatggtga tgggtgttcg cgagatcacg accaaggcga ccgtggacta 420
 cgagaagatc gtgcgcgaca cctgccgca gatcgggttc acctncgacg acgtgggcct 480
 tnacgcnac cnnatgcaagg tncgtgtgaa cattgagcaa naattcccng gactttnnngc 540
 anggcgttca cnggcant 558

<210> 63

<211> 332
 <212> DNA
 <213> Zea mays

<400> 63

```

gcccctgggc tcaggcctga tgggaagacc caggtgacag tcgagtaccg caatgagggg 60
ggtgccatgg tccccatccg tgtccacacc gtcctcatct ccaccagca cgacgagaca 120
gtgaccaatg atgagatcgc tgctgacctg aaggagcatg tcatcaagcc tgtcatccct 180
gagcagtacc ttgacgagaa gaccatcttc caccttaacc catctggccg ctttgtcatg 240
tggacctcac ggcgatgctg gcctcactgg cgcgaagatc atcatgacac ctacgggtggc 300
tggggagccc atggtggtgg cgctttctcc gg 332

```

<210> 64
 <211> 314
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 64

```

ctcggagtct gtgaacgagg gacaccctga caagctctgt gaccaggtct cagatgccgt 60
tcttgacgct tgccttgctg aggaccctga cagcaagggt gcttgtgaga cctgcaccaa 120
gaccaacatg gtcatggtct ttggtgagat caccaccaag gccaatgttg actacgagaa 180
gattgtcagg gagacctgcc gcaacattgg ttttgtgtca aacgatgttg ggcttgacgc 240
cgaccactgc aagtgctcgt gaacattnag cagcagtcct ctgatattgc tcanggtgtg 300
catggccact tcac 314

```

<210> 65
 <211> 293
 <212> DNA
 <213> Zea mays

<400> 65

```

ggacgagaag accatcttcc acctcaaccc gtcggggcgc ttcgtcatcg gcggggccca 60
cggggacgcc ggcctcaccg gccgcaagat catcatcgac acctacggcg gctggggagc 120
ccacggcggg ggcgccttct ccggcaagga cccaccaag gtggaccgca gcggggccta 180
cgtcgccagg caggccgcca agagcatcgt ggccagcggc ttcgcccgcc gctgcctcgt 240

```


gcaggtgtcc tacgccatcg ggtgccggag cccctgtccg tgttcgtcga etc 293

<210> 66
 <211> 289
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 66

gcaaggtggc ctgcgagacc tgcaccaaga cgaacatggt gatggtgttc ggcgagatca 60
 ccaccaaggc gagcgtggan tacgagaagn tcgtgcgcga cacctgccgc gagatcgggt 120
 tcacctccga cgacgtgggg ctgcacgccg accgctgcaa ggtgctggtg aacatcgagc 180
 agcagtcccc cgacatcgcg cagggcgtgc acgggcactt cacgaagcgg cccgaggaga 240
 tcggcgcccg cgaccagggc cacatgttcg ggtacgccac cgacgagac 289

<210> 67
 <211> 306
 <212> DNA
 <213> Zea mays

<400> 67

gttgactacg agaagattgt cagggagacc tgccgcaaca ttggttttgt gtcaaacgat 60
 gttgggcttg acgccgacca ctgcaagggtg ctctgaaca ttgagcagca gtcccctgat 120
 attgctcagg gtgtgcatgg ccacttcacc aagcgccccg aggagattgg agctggtgac 180
 cagggacaca tgttcgggta tgcgaccgat gagaccctg agttgatgcc cctcagccat 240
 gtccttgcca ccaagctagg tgctcgtctc accgaggtcc gcaagaacgg aacctgcccc 300
 tggctc 306

<210> 68
 <211> 303
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 68

tgacaagctc tgtgaccagg tctcagatgc cgttcttgac gcttgccctg ctgaggaccc 60
 tgacagcaag gttgcttggtg agacctgcac caagaccaac atggtcatgg tctttggtga 120

gatcaccacc aaggccaatg ttgactacga gaagattgtc agggagacct gccgcaacat 180
 tggttttgtg tcaaacgatg ttgggcttga cgccgaccac tgcaaggtgc tcgtgaacat 240
 tgagcagcag tcccctgata ttgctcaggg tngcatggc cacttcacca agcgccccga 300
 gga 303

<210> 69
 <211> 300
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 69

caaagaccaa catggtcatg gtctttggtg agatcaccac caaggccaat gtcgactacg 60
 agaagattgt caggagaca tgccgcaaca ttggtttcgt ntcgaacgat gtcgggcttg 120
 acgctgacca ctgcaaggtg cttgtgaaca ttgagcagca gtcccctgat attgctcagg 180
 gtgtncacgg ccacttcacc aagcgccccg aggagattgg agctggtgac caggggcaca 240
 tgtttgggta tgcgactgac gagaccctg agctgatgcc cctcagccat gtccttgcca 300

<210> 70
 <211> 329
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 70

gatcaaagaa gatggcagct gtcgacacat tctcttcac ctcggagtct gtgaacgagg 60
 gacaccctga caagctctgt gaccaggtct cagatgccgt tcttgacgct tgccttgctg 120
 aggaccctga cagcaagggtt gcttgtgaga cctgcaccaa gaccaacatg gtcattggtct 180
 ttggtgagat caccaccaag gccaatgttg actacgagaa gattgtcagg gagacctgcc 240
 gcaacattgg ttttgtgtca aacgatgttg ggcttgacgc cgaccattgc aagggtgcncg 300
 tgaanatnng cancagtcctc ctgatattg 329

<210> 71
 <211> 304
 <212> DNA
 <213> Zea mays

<210> 74
 <211> 320
 <212> DNA
 <213> Zea mays

<400> 74

```
caagcttggg gctcgtctca cggagggttcg caagaatgga acctgcccct ggctcaggcc 60
cgatgggaag acccaggtga cagtggagta ccgcaacgag ggtggcgcca tggttcccat 120
ccgtgtgcac acagtcctca tctctaccca gcacgacgag acagtcacca acgacgagat 180
tgctgctgac ctgaaggagc acgtcatcaa gccagtcatc cccgagcagt acctcgacga 240
gaagacaatc ttccacctca acccgtctgg ccgcttcgtc atcggcgggac tcacggcgac 300
ctggcctcac tggccggaag 320
```

<210> 75
 <211> 370
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 75

```
agagcatcgt ggccagcggc ctgccccgcc gctgcctcgt gcagggtgtcc tacgccatng 60
gcgtgcccga gccctgtca gtgttcgtcg actcctacgg caccgggacc atccccgaca 120
aggagatcct caagatcgtc aaggagaact tcgacttcag gcccgggatg atcaccatca 180
acctcgacct caagaagggc ggcaacaggt tcatcaagac cgccgcatac ggccactttg 240
gccgtgacga cgccgacttc acctgggagg tggtaagcc cctaaagaag gcatccgctt 300
aagaatgtat tgggaagtgc actggacatg aggttcatct tcgtctggct ctgctgatac 360
ctgcaaggat 370
```

<210> 76
 <211> 300
 <212> DNA
 <213> Zea mays

<400> 76

```
atggaacctg cccctggctc aggcccgatg ggaagaccca ggtgacagtg gagtaccgca 60
```

acgaggggtgg cgccatggtt cccatccgtg tgcacacagt cctcatctct acccagcacg 120
acgagacagt caccaacgac gagattgctg ctgacctgaa ggagcacgtc atcaagccag 180
tcatccccga gcagtacctc gacgagaaga caatcttcca cctcaaccgg tctggccgct 240
tcgtcatcgg cggaacctcac ggcgacgctg gcctcactgg ccggaagatc atcatcgaca 300

<210> 77
<211> 315
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 77

ctcagatgcc gttcttgacg cttgccttgc tgaggacct gacagcaagg ttgcttgtga 60
gacctgcacc aagaccaaca tggatcatggt ctttggtgag atcaccacca aggccaatgt 120
tgactacgag aagattgtca gggagacctg ccgcaacatt ggttttgtgt caaacgatgt 180
tgggcttgac gccgaccact gcaagggtgct cgtgaacatt gagcagcagt cccctgatat 240
tgctcagggt gtgcatggcc attcaccaag cgccccgang agattggagc tggtgaccag 300
gacacatggt cgggg 315

<210> 78
<211> 297
<212> DNA
<213> Zea mays

<400> 78

ctcttcacct cggagtctgt gaacgagga caccctgaca agctctgtga ccaggtctca 60
gatgccgttc ttgacgcttg ctttgctgag gacctgaca gcaagggtgc ttgtgagacc 120
tgcaccaaga ccaacatggt catggtcttt ggtgagatca ccaccaaggc caatgttgac 180
tacgagaaga ttgtcagga gacctgccgc aacattgggt ttgtgtcaaa cgatgttggg 240
cttgacgccg accactgcaa gtgctcgtga acattgagca gcagtcccct gatattg 297

<210> 79
<211> 448
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<400> 79

ttggttnagat caccaccaag gccaatgttg actacganaa gattgtnagg ganacctgtc 60
gcnacattgg ttttgtgtca aacgatgttg ggcttgacgc cgaccactgc aaggtgctcg 120
tgaacattna gcagnagtnc cctgatattg ctcanngtgt gcatggccac ttnaccaanc 180
gccccganga gattgganct ggtgaccagg gacacatggt cgggtatgcg accgatgaga 240
cccctnagtt gatgcccctc agccatgtcc ttgccaccaa gctaggtgct cgtctnaccg 300
aggtncncaa gaaccggaac ctgccnctgg ctcanngcctg atngngaagac cnatgtgaca 360
gtcnantnnc gnaatgaagg gtggtgccat tgnccccatc ctngtcaaca ccgttcttat 420
ttcaaccaag tnnagcagg acaatgac 448

<210> 80

<211> 287

<212> DNA

<213> Zea mays

<400> 80

caccgtcctc atctccaccc agcacgacga gacagtgacc aatgatgaga tcgctgctga 60
cctgaaggag catgtcatca agcctgtcat ccctgagcag taccttgacg agaagaccat 120
cttccacctt aaccatctg gccgctttgt cattggtgga cctcacggcg atgctggcct 180
cactggccgc aagatcatca ttgacaccta cgggtggctgg ggagcccatg gtggtggcgc 240
tttctccggc aaggacccaa ccaaggttga ccgcagcgga gctatgt 287

<210> 81

<211> 290

<212> DNA

<213> Zea mays

<400> 81

gcaatgaggg tggtgccatg gtccccatcc gtgtccacac cgtcctcatc tccaccagc 60
acgacgagac agtgaccaat gatgagatcg ctgctgacct gaaggagcat gtcacaaagc 120
ctgtcatccc tgagcagtac cttgacgaga agaccatctt ccaccttaac ccatctggcc 180
gctttgtcat tgggtggacct cacggcgatg ctggcctcac tggccgcaag atcatcattg 240
acacctacgg tggctgggga gcccatggtg gtggcgcttt ctccggcaag 290

<210> 82
 <211> 287
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 82

tggacgcctg cctggcgcag gaccccgaca gcaaggtggc ctgcgagacc tgcaccaaga 60
 cgaacatggt gatggtgttc ggcgagatca ccaccaaggc gagcgtggac tacgagaaga 120
 tcgtgcgcga cacctgccgc gagatcgggn nnacctccga cgacgtgggg ctcgacgccg 180
 accgctgcaa ggtgctggtg aacatcgagc agcagtcccc cgacatcgcg cagggcgtgc 240
 acgggcactt cacgaagcgg cccgaggaga tcggcgccgg cgaccag 287

<210> 83
 <211> 291
 <212> DNA
 <213> Zea mays

<400> 83

atgcccctca gccatgtcct tgccaccaag ctaggtgctc gtctcaccga ggtccgcaag 60
 aacggaacct gccctggct caggcctgat gggaagacct aggtgacagt cgagtaccgc 120
 aatgaggggtg gtgccatggt ccccatccgt gtccacaccg tcctcatctc caccagcac 180
 gaggagacag tgaccaatga tgagatcgct gctgacctga aggagcatgt catcaagcct 240
 gtcacccctg agcagtacct tgacgagaag accatcttcc accttaacct a 291

<210> 84
 <211> 283
 <212> DNA
 <213> Zea mays

<400> 84

tgccgctgag ccacgtgctg gccaccaagc tgggcgcgcg cctcaccgag gtgcgcaaga 60
 acggcacctg cgcctggctg aggcccgatc ggcaagacct aggtgacggt ggagtacgtg 120
 aacgagggcg gcgccatggt gcccgctccg gtgcacaccg tgctcatctc caccagcac 180
 gaggagaccg tcaccaacga cgagatcgcc gccgacctca aggagcacgt catcaagccc 240
 gtgatccctg agaagtacct cgacgagaag accatcttcc acc 283

<210> 85
 <211> 274
 <212> DNA
 <213> Zea mays

<400> 85

```
cgtgaacgag gggcaccccg acaagctgtg cgaccaggtg tcggacgccg tgcttgacgc 60
atgcctcgcg caggaccccg acagcaaggt ggcctgcgag acctgcacca agaccaacat 120
ggtgatggtg ttcggcgaga tcacgaccaa ggcgaccgtg gactacgaga agatcgtgcg 180
cgacacctgc cgcgagatcg ggttcacctc cgacgacgtg ggcctcgaca ccgaccgctg 240
caaggtgctg gtgaacatcg agcagcagtc cccc 274
```

<210> 86
 <211> 290
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 86

```
ggagcacgtc atcaagccag tcattccccga gcagtacctc gacgagaaga caatcttcca 60
cctcaacccg tctggccgct tcgtcatnng cggacctcac ggcgacgctg gcctcactgg 120
ccggaagatc atcatcgaca cctacgggtg ctgggggagcc cacggcgggg gcgccttctc 180
cggcaaggac ccgaccaagg tggaccgcag cggggcctac gtcgcgaggc aggctgccaa 240
gagcatcgtc gccgccggcc tcgcccgeng tgccatcgtc caggtctcct 290
```

<210> 87
 <211> 290
 <212> DNA
 <213> Zea mays

<400> 87

```
gtcgacacat tcctcttcac ctccgagttc gtgaacgagg gacaccctga caagctctgt 60
gaccaggtct cagatgccgt tcttgacgct tgccttgctg aggaccctga cagcaagggt 120
gcttgtgaga cctgcaccaa gaccaacatg gtcattgtct ttggtgagat caccaccaag 180
gccaatgttg actacgagaa gattgtcagg gagacctgcc gcaacattgg ttttgtgtca 240
```


aacgatgttg ggcttgacgc cgaccactgc aaggtgctcg tgaacattga 290

<210> 88
 <211> 288
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 88

gcggccgaga gcttcctttt cacctcggag tccgtgaacg aggggcaccc cgacaagctg 60
 tgcgaccagg tgtcggacgc cgtgcttgac gcatgcctcg cgcaggaccc cgacagcaag 120
 gtggcctgcg agacctgcac caagaccaac atggtgatgg tggtcggcga gatcacgacc 180
 aaggcgaccg tggactacga gaagatcgtg cgcgacacct gccgcgagat cgggttcact 240
 ncgacgacgt gggcctcgac gccgaccgct gcaagnngct ngtgaact 288

<210> 89
 <211> 289
 <212> DNA
 <213> Zea mays

<400> 89

gcgactgacg agaccctga gctgatgccc ctcagccatg gttcccatcc gtgtgcacac 60
 agtcctcatc tctaccacgc acgacgagac agtcaccaac gacgagattg ctgctgacct 120
 gaaggagcac gtcatcaagc cagtcatccc cgagcagtac ctcgacgaga agacaatctt 180
 ccacctcaac ccgtctggcc gcttcgtcat cggcggacct cacggcgacg ctggcctcac 240
 tggccggaag atcatcatcg acacctacgg tggctgggga gcccacggc 289

<210> 90
 <211> 330
 <212> DNA
 <213> Zea mays

<400> 90

ccctcttgcc ggtccgaat aaagagcagc agcgcaagag gtcggtagag cgagaagaag 60
 gcaatggcgg ccgagagctt ccttttcacc tcggagtccg tgaacgaggg gcaccccgac 120
 aagctgtgcg accaggtgtc ggacgcctg cttgacgcat gcctcgcgca ggaccccgac 180
 agcaagggtg cctgcgagac ctgcaccaag accaakatgg tgatggtgtt cggcgagatc 240

acgaccaagg cgaccgtgga ctacgagaag atcgtgcgcg acacctgccg cgagatcggg 300
 ttcacctccg acgacgtggg cctcgacgcc 330

<210> 91
 <211> 291
 <212> DNA
 <213> Zea mays

<400> 91
 gtgctcgtct caccgaggtc cgcaagaacg gaacctgcc ctggctcagg cctgatggga 60
 agaccaggt gacagtcgag taccgcaatg agggtggtgc catgggtccc atcgtgtcc 120
 acaccgtcct catctccacc cagcacgacg agacagtgc caatgatgag atcgctgctg 180
 acctgaagga gcatgtcatc aagcctgtca tccctgagca gtaccttgac gagaagacca 240
 tcttcacct taacccatct ggccgctttg tcattgggtg acctcacggc g 291

<210> 92
 <211> 285
 <212> DNA
 <213> Zea mays

<400> 92
 gccagcggcc tcgcccgcg ctgcctcgtg cagggtgtcct acgccatcg cgtgccggag 60
 cccctgtccg tgttcgtcga ctctacggc accgggacca tccccgaca ggagatccta 120
 aagatcgtca aggagaactt cgacttcagg ccagggatga tcaccatcaa cctcgacctc 180
 aagaagggcg gcaacagggt catcaagacc gccgcatacg gccactttgg ccgtgacgac 240
 gccgacttca cctgggaggt ggtcaagccc ctaaagaagg catcc 285

<210> 93
 <211> 283
 <212> DNA
 <213> Zea mays

<400> 93
 ggccacttca ccaagcggcc cgaggagatt ggagctggtg accagggaca catgttcggg 60
 tatgcgaccg atgagacccc tgagttgatg cccctcagcc atgtccttgc caccaagcta 120
 ggtgctcgtc tcaccgaggt ccgcaagaac ggaacctgcc cctggctcag gcctgatggg 180

aagacccagg tgacagtcga gtaccgcaat gaggggtgtg ccatgggtccc catccgtgtc 240
cacaccgtcc tcatctccac ccagcacgac gagacagtga cca 283

<210> 94
<211> 298
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 94

actacgagaa gattgtcagg gagacatgcc gcaacattgg tttcgtgtcg aacgatgtcg 60
ggcttgacgc tgaccactgc aagggtgcttg tgaacattga gcagcagtcc cctgatattg 120
ctcaggggtgt gcacggccac ttcaccaagc gccccgagga gattggagct ggtgaccagg 180
ggcacatgtt tgggtatgcn actgacgaga cccctgagct gatgcccctc agccatgtcc 240
ttgccaccaa gcttgggtgtc gtctcacnga aggttcgcaa gaatggaacc tgccccnt 298

<210> 95
<211> 469
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 95

cttctccctc ttgccggtcc cgaataaaga gcagcagcgc aagagggtcgg tagagcgaga 60
agaaggcaat ggcgggcgag agcttccctt tcacctcgga gtccgtgaac gaggggcacc 120
ccgacaagct gtgcnaccag gtgtcggacg ccgtgcttga cncatgcctc gcgcaggacc 180
ccnacagcaa ggtgggectgc nagacctgca ccaanaccaa catggtgatg gtgttcggcg 240
agatcacgac caangcgacc gtggactacg agaagatcgt gcgccgacac ctgccgagag 300
atcggggttca ccttcgncga cgtgngccct tgactccnnc ccggtgcaag gtgctggtga 360
acattnatca tcaatncccc gacattnttc aaggcnttca cggcacttta cgaaacggcc 420
cnangagatc ggccggggcca acagngccac atnttcgggt ccccccca 469

<210> 96
<211> 293
<212> DNA
<213> Zea mays

<223> unsure at all n locations
 <400> 96

aacgatgttg ggcttgacgc cgaccactgc aaggtgctcg tgaacattga gcagcagtcc 60
 cctgattgct caggggtgtgc atggccactt caccaagcgc cccgaggaga ttggagctgg 120
 tgaccaggga cacatgttcg ggtatgcnac cgatgagacc cctgagttga tgcccctcag 180
 ccatgtcctt gccaccaagc taggtgctcg tctcaccgag gtccgcaaga acggaacctg 240
 cccctggctc aggcctgatg ggaagaccca ggtgacagtc gagtaccgca aaa 293

<210> 97
 <211> 280
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 97

cggnacgntg gcgtgaacga ggggcaccca gacaagctgt gcgaccaggt gtcggacgcg 60
 gtgctggacg cctgcctggc gcagganccc gacagcaagg tggcctgcga gacctgcacc 120
 aagacgaaca tggatgatgtt gttcggcgag atcaccacca aggcgagcgt ggactacgag 180
 aagatcgtgc gcgacacctg ccgcgagatc gggttcacct ccgacgacgt ggggctcgac 240
 gccgaccgct gcaagggtgct ggtgaacatc gagcagcagt 280

<210> 98
 <211> 285
 <212> DNA
 <213> Zea mays

<400> 98

catggtggtg gcgctttctc cggcaaggac ccaaccaagg ttgaccgcag cgagacctat 60
 gtgcgcaggc aggctgccaa gagcatcgtc gccagcggcc ttgctcgccg cgccatcgtc 120
 caggtgtctt acgccatcgg cgtgcccagc cctctctccg tggtcgtcga cacgtacggc 180
 accggcgcgga tccccgacaa ggagatcctc aagattgtca aggagaactt cgatttcagg 240
 cctggcatga tcatcatcaa ccttgacctc aagaaaggcg gcaag 285

<210> 99
 <211> 278

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 99

 aggtgacagt cgagtaccgc aatgaggggtg gtgccatggt ccccatncgt gtccacaccg 60
 tcctcatctc caccagcac gacgagacag tgaccaatga tgagatcgct gctgacctga 120
 aggagcatgt catcaagcct gtcatncctg agcagtacct tgacgagaag accatcttcc 180
 accttaaccc atctggccgc tttgtcattg gtggacctca cggcgatgct ggcctcactg 240
 gccgcaagat catcattgac acctacgggtg gctgggga 278

<210> 100
 <211> 275
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 100

 gtgaccaatg atgagatcgc tgctgacctg aaggagcatg tcatcaagcc tgtcatccct 60
 gagcagtacc ttgacgagaa gaccatcttc caccttaacc catctggccg ctttgtcatt 120
 ggtggacctc acggcgatgc tggcctcact ggccgcaaga tcatcattga cacctacgggt 180
 ggctggggag cccatggtgg tggcgctttc tccggcaagg acccaaccaa ggttgaccgc 240
 agcggancct atgtcgcaag gcaggctgcc aagag 275

<210> 101
 <211> 291
 <212> DNA
 <213> Zea mays

 <400> 101

 gatcgctgct gacctgaagg agcatgtcat caagcctgtc atccctgagc agtaccttga 60
 cgagaagacc atcttcacc ttaaccatc tggccgcttt gtcattggtg gacctcacgg 120
 cgatgctggc ctactggcc gcaagatcat cattgacacc tacggtggct ggggagccca 180
 tgggtggtggc gctttctccg gcaaggaccc aaccaagggt gaccgcagcg gaggctatgt 240
 cgcaaggcag gctgccaaga gcatcgtcgc cagcggcttg ctgccgcgc c 291

<210> 102
 <211> 301
 <212> DNA
 <213> Zea mays

 <400> 102
 agaagatggc cggactcgac accttcctct tcacctcgga gtccgtgaac gagggacacc 60
 ctgacaagct ctgcgaccag gtctcagatg ctgttctgga cgcttgccctg ctgaggaccc 120
 tgacagcaag gttgcttgcg agacctgcac caagaccaac atgggtcatgg tctttggtga 180
 gatcaccacc aaggccaatg tcgactacga gaagattgtc agggagacat gccgcaacat 240
 tggtttcgtg tcgaacgatg tcgggcttga cgctgaccac tgcaagtgt tgtgaacatt 300
 g 301

<210> 103
 <211> 336
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 103
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 aggcaatggc ggccgagagc ttccttttna cctcggagtc cgtgaaacga ggggcncccc 120
 gacaagctgt gcgaccaggt gtcggacgcc gtgcttgacg catgcctcgc gcaggacccc 180
 gacagcaagg tggcctgcga gacctgcacc aagaccaaca tggatgatgg gttcggcgag 240
 atcacgacca aggcgaccgt ggactacgag aagatcgtgc gcgacacctg ccgcgagatc 300
 ggggttcacct ccgacgacgt gggcctcgac gccgac 336

<210> 104
 <211> 276
 <212> DNA
 <213> Zea mays

 <400> 104
 tgagaagtac ctcgacgaga agaccatctt ccacctcaac ccgtccgggc gcttcgtcat 60
 cggcgggccc caggtgacg ccggcctcac cggccgcaag atcatcatcg acacgtacgg 120
 cggctgggga gccacggcg gtggcgctt ctccggcaag gacccacca aggtggaccg 180

cagcgggcgcc tacgtggcca ggcaggccgc caagagcatc gtggccagcg gctcgcccgc 240
cgctgcctcg tgcagtgtcg tacgccatcg ctgccg 276

<210> 105
<211> 287
<212> DNA
<213> Zea mays

<400> 105
gagattggag ctggtgacca gggacacatg ttcggttatg cgaccgatga gaccctgag 60
ttgatgcccc tcagccatgt ccttgccacc aagctaggtg ctcgctcac cgaggtccgc 120
aagaacggaa cctgcccctg gctcaggcct gatgggaaga cccagggtgac agtcgagtac 180
cgcaatgagg gtggtgccat ggtcccatc cgtgtccaca ccgtcctcat ctccaccag 240
cacgacgaga cagtgaccaa tgatgagatc gtgctgacct gaaggag 287

<210> 106
<211> 303
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 106

accgtcctca tctccacca gcacgacgag acagtgacca atgatgagat cgctgctgac 60
ctgaaggagc atgtcatcaa gcctgtcatc cctgagcagt accttgacga gaagaccatc 120
ttccacctta acccatctgg ccgctttgtc attggtggac ctcacggcga tgctggcctc 180
actggccgca agatcatcat tgacacctac ggtggctggg gagcccatgg tgggtggcgct 240
ttctccggca aggacccaac caagttgacc gcagcgganc tatgtcgcaa ggcagctgcc 300
aag 303

<210> 107
<211> 279
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 107

gtgaccaggt ctcagatgcc gttcttgacg cttgccttgc tgaggaccct gacagcaagg 60

ttgcttgtga gacctgcacc aagaccaaca tggatcatggt ctttgggtgag atcaccacca 120
aggccaatgt tgactacgag aagattgtna gggagacctg ccgcaacatt ggttttgtgt 180
caaacgatgt tgggcttgac gccgaccact gcaagggtgct cgtgaacatt gagcagcagt 240
cccctgatat tgctcagggg gtgcatggcc acttcacca 279

<210> 108
<211> 330
<212> DNA
<213> Zea mays

<400> 108

ctcttctccc tcttgccggt cccgaataaa gagcagcagc gcaagaggtc ggtagagcga 60
gaagaaggca atggcgcccg agagcttctt ttacacctcg gagtccgtga acgaggggca 120
ccccgacaag ctgtgcgacc aggtgtcgga cgccgtgctt gacgcatgcc tcgcgagga 180
ccccgacagc aagggtggcct gcgagacctg caccaagacc aacatgggtga tgggtgttcgg 240
cgagatcacg accaaggcga ccgtggacta cgagaagatc gtgcgcgaca cctgccgcga 300
gatcgggttc acctccgacg acgtgggcct 330

<210> 109
<211> 298
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 109

ccgacggcaa gaccagggtg acggtggagt acgtgaacna nggcggcgcc atggtgcccg 60
tccgcntgca caccgtgctc atctccaccc agcacgacga gaccgtcacc aangacgagn 120
tcgccgccgn cctcanggag cacgtcntna agcccgatcat cccgganagg tacctggacg 180
anaagacnt cttncacctc aaccgctcgg gggcgnttcg tcntcggcgg gccccacggg 240
gacnccggcc tnaccggccg caagntgntc ntngncacct acngcgngtg gggagccc 298

<210> 110
<211> 498
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<400> 110

cccctctttn gcctatccgg gccgaccac gcgnacgcg gnggctcngn gcgtatcgag 60

cccacggatt ttggcntctn ctccggcaag gacccaccn nggtgggggn gnattgggnc 120

ctaccgtcgc caggcangcc gacaagagca tngnggccag cggcctcgn cgccgntgcc 180

tcgngcaggt gtcttacgcc atcggcgtgc cggagcccct gtccgtgttc gtngactcct 240

acggcaccgg gaccatcccc gacaaggaga tcctaaagat cgtnaaggag aacttcgact 300

tcaggccagg gatggtcacc atcaacctcg acctcaagaa gggcggaac aggttcatca 360

agaccgccgn atacggccac tttggccgt gacgacgccg acttcacctg ggagggtggc 420

aagcccctaa agaaggcatc cgcttaagaa tgtattnga aagttcactg gacatgaagg 480

atcatcttcc tctnggct 498

<210> 111
 <211> 284
 <212> DNA
 <213> Zea mays

<400> 111

gcccgcagat caaagaagat ggcagctgtc gacacattcc tcttcacctc ggagtctgtg 60

aacgagggac accctgacaa gctctgtgac caggtctcag atgccgttct tgacgcttgc 120

cttgctgagg accctgacag caaggttgct tgtgagacct gcaccaagac caacatggtc 180

atggtctttg gtgagatcac caccaaggcc aatgttgact acgagaagat tgtcaggagg 240

acctgccgca acattggttt tgtgtcaaac gatgttgggc ttga 284

<210> 112
 <211> 328
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 112

ggcgagatca cgaccaaggc gaccgtggac tacgagaaga tcgtgcgcga cacctgccgc 60

gagatcgggt tcacctccga cgacgtgggc ctcgacgccg accgctgcaa ggtgctggtg 120

aacatcgagc agcagtcccc cgacatcgcg cagggcgtgc acgggcactt cacgaagcgg 180

cccgaggaga tcggcgcggg nnaccagggc cacatgttcg ggtacgccac cgacgagacc 240

cccgagctga tgccgctgag ccaacgtgct ggccaacaag ctgggcgcgg ggctcaccga 300
 ngtgcgaaaa acggcaactg cgctggct 328

<210> 113
 <211> 287
 <212> DNA
 <213> Zea mays

<400> 113
 gggggcgcct tctccggcaa ggacccgacc aaggtggacc gcagcggggc ctacgtcgcg 60
 aggcaggctg ccaagagcat cgtcgccgcc ggccctcgccc gccgcgccat tgtccaggtc 120
 tcctacgcca tcggcgtgcc cgagcccctt tcggtgttcg tggacacgta cggcaccggc 180
 gccatccccg acaaggagat cctgaagatc gtgaaggaga acttcgactt caggcccggc 240
 atgatcatca tcaacctcga cctcaagaaa ggcggaacg ggcgcta 287

<210> 114
 <211> 261
 <212> DNA
 <213> Zea mays

<400> 114
 cgacgccgaa ccgctgcaag gtgctggtga acatcgagca gcagtcccc gacatcgcgc 60
 agggcgtgca cgggcacttc acgaagcggc ccgaggagat cggcgcgggc gaccagggcc 120
 acatgttcgg gtacgccacc gacgagaccc ccgagctgat gccgctgagc cacgtgctgg 180
 ccaccaagct gggcgcgcgc ctcaccgagg tgcgcaagaa cggcacctgc gcctggctga 240
 ggcccgcgag caagacccag g 261

<210> 115
 <211> 294
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 115

gggccacttc accaagcgcc ccgaggagat tggagctggt gaccagggac acatgttcgg 60
 gtatgcgacc gatgagaccc ctgagttgat gccctcagc catgtccttg ccaccaagct 120

aggtgctcgt ctcaccgagg tccgcaagaa cggaanctgc ccctgggtca ggctgatgg 180
gaagacccag gtgacagtcg agtaccgcaa tgaggggtgg gccatgggtcc ccatccgtgt 240
ccacaccgtc ctcatctcca cccagcacga cgagacatga ccaatgatga gatc 294

<210> 116
<211> 318
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 116

ctgaaggagc acgtcatcaa gccagtcatt cccgagcagt acctcgacga gaagacaatc 60
ttccacctca acccgtctgg ncgcttcgtc atcggcggaac ctacggcgga cgccggcctc 120
actggccgga agatcatcat cgacacctac ggtggctggg gagcccaagg cggggggcgcc 180
ttctccgga aggacccgac caangtggac cgcagcgggg cctacgtcgc gangcaggct 240
gccaagagca tcgtcgccgc cggcctcgcc gcnegcccat cgtccaggtc tctagcatgg 300
gtgccgancc tatcgtgt 318

<210> 117
<211> 256
<212> DNA
<213> Zea mays

<400> 117

gagaagtacc tcgacgagaa gaccatcttc cacctcaacc cgtccggggcg cttcgtcatc 60
ggcggggccc acggtgacgc cggcctcacc ggccgcaaga tcatcatcga cacgtacggc 120
ggctggggag cccacggcgg tggcgcttc tccggcaagg accccaccaa ggtggaccgc 180
agcggcgctt acgtggccag gcaggccgcc aagagcatcg tggccagcgg cttcgcccgc 240
cgctgccttc tgcaag 256

<210> 118
<211> 275
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 118

gtcgacacat tcctcttcac ctcgaggtct gtgaacgagg gacaccctga caagctctgt 60
gaccaggtct cagatgccgt tcttgacgct tgccttgctg aggaccctga cagcaagggt 120
gcttggtgaga cctgcaccaa gaccaacatg gtcattggtct ttggtgagat caccaccaag 180
gncnatgttg actacgagaa gattgtcagg gagacctgcc gcaacattgg ttttgtgtca 240
aacgatgttg ggcttgacgc cgaccactgc aagggt 275

<210> 119
<211> 276
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 119

gtcgacacat tcctcttcac ctcgaggtct gtgaacgagg gacaccctga caagctctgt 60
gaccaggtct cagatgccgt tcttgacgct tgccttgctg aggaccctga cagcaagggt 120
gcttggtgaga cctgcaccaa gaccaacatg gtcattggtct ttggtgagat caccaccaag 180
gccattgttg actacgagaa gattgtcagg gagacctgcc gcaacattgg ttttgtgtca 240
aacgatgttg ggcttgacgc cgaccactgc aagggt 276

<210> 120
<211> 309
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 120

cggcacggtg gtcgcagcat cgctgctgac ctgaaggagc atgtcatcaa gcctgtnatc 60
cctgagcagt accttgacga gaagaccatn ttccacctta acccatctgg ccgctttgtc 120
attggtggac ctacggcgga tgctggcctc actggccgca agatcatcat tgacacctac 180
ggtggctggg gagcccatgg tgggtggcgct ttctccggca aggacccaac caaggttgac 240
cgcagcggag cctatgtcgc aangcangct gccaaagagca tcgtcgccaa cggcttgctc 300
gccgcgccca 309

<210> 121
<211> 267
<212> DNA

<213> Zea mays

<400> 121

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ctcaggggtgt gcatggccac ttcaccaagc gccccgagga gattggagct ggtgaccagg 60
gacacatggt cgggtatgcg accgatgaga cccctgagtt gatgcccctc agccatgtcc 120
ttgccaccaa gctaggtgct cgtctcaccg aggtccgcaa gaacggaacc tgcccctggc 180
tcaggcctga tgggaagacc caggtgacag tcgagtaccg caatgagggg ggtgccatgg 240
tccccatccg tgtccacacc gtcctca 267
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<210> 122

<211> 277

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 122

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gcaaggtgct tgtgaacatt gagcagcagt cccctgatat tgctcagggg gtgcacggcc 60
acttcaccaa gcgccccgag gagattggag ctggtgacca ggggcacatg tttgggtatg 120
cgactgacga gaccctgag ctgatgcccc tcagccatgt ccttgccacc aagcttggtg 180
ctcgtctcac ggaggttcgc aagaatggaa cctgcccctg gctcaggccc gatgggaaga 240
cccagtgaca attggantac cgcaacgagg gtggccc 277
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<210> 123

<211> 264

<212> DNA

<213> Zea mays

<400> 123

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gccacatggt cgggtacgcc accgacgaga cccccgagct gatgccgctg agccacgtgc 60
tggccaccaa gctgggcgcg cgcctcaccg aggtgcgcaa gaacggcacc tgcgcctggc 120
tgaggccccg cggcaagacc caggtgacgg tggagtacgt gaacgagggc ggcgccatgg 180
tgcccgtccg cgtgcacacc gtgctcatct ccaccagca cgacgagacc gtcaccaacg 240
acgagatcgc ccgccgacct caag 264
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<210> 124

<211> 269

<212> DNA
 <213> Zea mays
 <400> 124
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 cgccgaccac tgcaaggtgc tcgtgaacat tgagcagcag tcccctgata ttgctcaggg 120
 tgtgcatggc cacttcacca agcgccccga ggagattgga gctggtgacc agggacacat 180
 gttcgggtat gcgaccgatg agaccctga gttgatgcc ctcagccatg tccttgccac 240
 caagctaggt gctcgtctca ccgaggtcc 269

<210> 125
 <211> 274
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 125

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 aacggcacct gcgcctggct gagggccgac ggcaagacct aggtgacggt ggagtacgtg 120
 nacgagggcg gcgccatggt gcccgtccgc gtgcacaccg tgctcatctc cacncancan 180
 gnnngngntng tcaccaacna cgagatcgcc gccgacctca aggagcacgt catcaagccc 240
 gtgatccctg agaagtacct cgacgagaag acca 274

<210> 126
 <211> 260
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 126

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 tgggtgagatc accaccaagg ccaatgtcga ctacgagaag attgtcaggg agacatgccg 120
 caacattggt ttcgtgtcga acgatgtcgg gcttgacgct gaccactgca aggtgcttgt 180
 gaacattgag cagcagtccc ctgatattgc tcagggtgtg cacggccact tcaccaagcg 240
 ccccgaggag attggagctg 260

<210> 127
 <211> 516
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 127

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 attcccggt cgacccacgc gtccggagaa gaccatcttc cacctcaacc cgtccgggcg 120
 cttcgtcatc ggcgggcccc aggggtgacgc cggcctcacc ggccgcaaga tcatcatcga 180
 cacgtacggc ggctggggag cccacggcgg tggcgcccttc tccggcaagg accctaccaa 240
 ggtggaccgc agcggcgccct acgtggccag gcaggccgnt cangagcatc gtggccagcg 300
 gcctcncccg ccgctgnctc gtgcagggtgt cgtacgcnat cggcgtgcac ggagcccntg 360
 tatcgtattc gtaactcgta cggaacnggn acgatncnng anaaggatat actanangat 420
 agtgaaggag aantnntnct tnatgcnnnn gtgatnagg atnnaanntn nannngnnna 480
 angttnnnnn nnggnnnatt nnnnantntn nnnnta 516

<210> 128
 <211> 264
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 128

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 ccttaaccca tctggccgct ttgtcattgg tggacctcac ggcgatgctg gcctcactgg 120
 ccgcaagatc atcattgaca cctacgggtg ctggggagcc catggtggtg gcgctttctc 180
 cggcaaggac ccaaccaagg ttgaccgcag cggagcctat gtcgcaangc aggctgccaa 240
 gagcatcgtc gccagcggcc ttgc 264

<210> 129
 <211> 270
 <212> DNA
 <213> Zea mays

<400> 129

caagaatgga acctgccctt ggctcaggcc cgatgggaag acccaggtga cagtggagta 60

ccgcaacgag ggtggcgcca tggttcccat ccgtgtgcac acagtcctca tctctaccca 120
gcacgacgag acagtcacca acgacgagat tgctgctgac ctgaaggagc acgtcatcaa 180
gccagtcatc cccgagcagt acctcgacga gaagacaatc ttccacctca acccgctctgg 240
ccgcttcgtc atcggcggac ctcacggcga 270

<210> 130
<211> 249
<212> DNA
<213> Zea mays

<400> 130

cacgtcatca agcccgtgat ccctgagaag tacctcgacg agaagaccat cttccacctc 60
aaccggtccg ggcgcttcgt catcggcggg cccacgggtg acgccggcct caccggccgc 120
aagatcatca tcgacacgta cggcggctgg ggagcccacg gcggtggcgc cttctccggc 180
aaggacccca ccaaggtgga ccgcagcggc gcctacgtgg ccaggcaggc cgccaagagc 240
atcgtggcc 249

<210> 131
<211> 270
<212> DNA
<213> Zea mays

<400> 131

gtcatcaagc ctgtcatccc tgagcagtac cttgacgaga agaccatctt ccaccttaac 60
ccatctggcc gctttgttat tgggtggacct cacggcgatg ctggcctcac tggccgcaag 120
atcatcattg acacctacgg tggctgggga gcccatggtg gtggcgcttt ctccggcaag 180
gacccaacca aggttgaccg cagcggagcc tatgtcgcaa ggcaggctgc caagagcatc 240
gtcgccagcg gccttgctcg ccgcgccatc 270

<210> 132
<211> 265
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 132

ctgcancaag accaacaatgg tcatggtctt tggtagatc accaccaagg ccaatgttga 60
ctacgagaag attgtcaggg agacctgccg caacattggt tttgtgtcaa acgatgttgg 120
gcttgacgcc gaccactgca aggtgctcgt gaacattgag cagcagtccc ctgatattgc 180
tcagggtgtg canggccact tcaccaagcg ccccgaggag attggagctg gtgaccaggg 240
acacatgttc gggatatgca ccgat 265

<210> 133
<211> 284
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 133

accggccgca agatcatcat cgacacgtac ggcggctggg gagcccacgg cggggngcct 60
tctccggcaa ggaccccacc aaggtggacc ncagcggcgc ctacgtggcc aggcaggccg 120
ccaagagcat cgtngccagc ngcctcgccc gccgctgcct cgtgcagggtg tcgtacgcca 180
tcggntgccg gagcncctgt ccgtgttcgt caactcgtac ggcaccggca cgatccccga 240
caaggagatc ctcaagatcg tgaaggagna ttcgattcag gccg 284

<210> 134
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 134

gggagacatg ccgcaacatt ggtttcgtgt cgaacgatgt cgggcttgac gctgaccact 60
gcaaggtgct tgtgaacatt gagcagcagt ccctgatat tgctcagggt gtgcacggcc 120
acttaccaag cgccccgagg agattggagc tggtagaccag gggcacatgt ttgggtatgc 180
gactgacgag acccctgagc tgatgcccct cagccatgtn cttgccacca agcttgggtgc 240
tcgtctnaca aangntcgca agaaatggaa cctggcccct ggcttaagcc cgatnggnaa 300
gaccaagtg acaagtggaa tanccgnaac caagggtggc nccatgggtt cccattcgtg 360
tgcacacaag tccttaattt ttaccaaca ccgaccaagg ccagttancc aacgaccagg 420
anttggcnt 429

<210> 135
 <211> 282
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 135

atcggcgggc cccacggtga cgccggcctc accggccgca agatcatcat cgacacgtac 60
 ggcggctggg gagcccacgg cggtggcgcn ttctccggca aggacccac caaggtggac 120
 cgcagcggcg cntacgtggc caggcaggcc gccaaagagca tcgtngccag cngctcgnc 180
 gccgntgcnt ngtgcagggtg tcgtacgcca tcggctgccg gagcccctgt ccgtgttngt 240
 caactcgtac ggcngcggca cgntccccga caaggagntc tc 282

<210> 136
 <211> 279
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 136

gtgatggtgt tcggcgagat cacgaccaag gcgaccgtgg actacgagaa gatcgtgcgc 60
 gacacctgcc gcgagatcgg gttcacctcc gacgacgtgg gcctcgacgc cgaccgctgc 120
 aaggtgctgg tgaacatcga gcagcagtcc cccgacatcg cgcagggcgt gcacgggcat 180
 tcacgaagcg gcccgaggag atcggcgcg gcgaccaggg ccacatgttc gggtacgcca 240
 ccgacgagac ccccgagtga tgccgtnagc natgtgngc 279

<210> 137
 <211> 283
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 137

ctgagaagta cctcgacgag aagaccatct tccacctcaa cccgtccggg cgcttcgtca 60
 ttggcggggc ccaaggtgaa ggcgggctta acgggcggaa anntnntcat cganacgnan 120
 ggcggttggg gagcccacgg cggtggcgcn ttctccggca aggacccac caaggtggac 180
 cgcagcggcg cctacgtggc caggcaggcc gccaaagagca tcgtggccag cggcttcgcc 240

cgcngetgcc tcgtgcaggt gtcgtacgcc atcgggtgcc gga

283

<210> 138
<211> 297
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 138

cggacntggn gaaaggagca cgtcatcaag ccagtcattcc ccgagcagta cctcgacgag 60
annntcaatc ttccacctca acccgtcttg cgccttcgtc atcggcggac ctacaggcga 120
cgctggcctc actggccgga agatcatcat cgacacctac ggtggctggg gagcccacgg 180
cgggggcgcc ttctccgga aggacccgac caaggtggac cgcagcgggg cctacgtcgc 240
gaggcaggct gccaaagca tcgtcgccgc ggctcgccc gccgcgcatt gtccagt 297

<210> 139
<211> 317
<212> DNA
<213> Zea mays

<400> 139

ctccctcttg ccggtcccga ataaagagca gcagcgcaag aggtcggttag agcgagaaga 60
aggcaatggc ggccgagagc ttctttttca cctcggagtc cgtgaacgag gggcaccgga 120
caagctgtgc gaccagggtg cggacgccgt gcttgacgca tgcctcgccg aggacccgga 180
cagcaagggtg gcctgcgaga cctgcaccaa gaccaacatg gtgatggtgt tcggcgagat 240
cacgaccaag gcgaccgtgg actacgagaa gatcgtgcgc gacacctgcc gcgagatcgg 300
gttcacctcc gacgacg 317

<210> 140
<211> 277
<212> DNA
<213> Zea mays

<400> 140

cgctgcctcg tgcagggtgc gtacgccatc ggcgtggccg gagcccctgt ccgtgttcgt 60
caactcgtac ggcaccggca cgatccccga caaggagatc ctcaagatcg tgaaggagaa 120

cttcgacttc aggcccgga tgatcagcat caacctcgac ctgaagaagg gcggcaacag 180
gttcatcaag accgccgcct acggccactt cggccgtgac gacgccgact tcacctggga 240
ggtggtgaag cccctcaagt tcgacaaggc atcgctt 277

<210> 141
<211> 279
<212> DNA
<213> Zea mays

<400> 141

ccgagcctct ctccgtgttc gtcgacacgt acggcaccgg cgcgatcccc gacaaggaga 60
tcctcaagat tgtcaaggag aacttcgatt tcaggcctgg catgatcatc atcaaccttg 120
acctcaagaa aggcggcaac gggcgctacc tcaagacggc ggccctacggc cactttggaa 180
gggacgaccc tgacttcacc tgggaggtgg tgaagccact caagtcggag aaaccttctg 240
cctaaggcgg cctttttttc agtaagaagc ttttggtgg 279

<210> 142
<211> 263
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 142

caaggttgac cgcagcggag cctatgtcgc aaggcaggct gccaaagaca tcgtcgccag 60
cngccttgct cgccgcgcca tcgtccagggt gtcttaacgc atcggcgtgc ccgagcctct 120
ctccgtgttc gtcgacacgt acggcaccgg cgcgatcccc gacaaggaga tcctcaagat 180
tgtcaaggag aacttcgatt tcaggcctgg catgatcatc atcaaccttg acctcaagaa 240
aggcggcaac gggcgctacc tca 263

<210> 143
<211> 287
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 143

cgatcatcaag ccagtcaccc ccgagcagta cctcgacgag aagacaatct tccacctcaa 60

cccgtctggc cgttttcgtca tcggcggacc tcacggcgac gccggcctca ctggccggaa 120
gatcatcatc gacacctacg gtggctgggg agcccacggc gggggcgcct tctccggcaa 180
ggacccgacc aaggtggacc gcagcggggc ctacgtcgcg aggcaggctg ccaagagcat 240
cgtcgccgcc ggccttcgcc cgcngcgcca tcgtccaggt ctctaag 287

<210> 144
<211> 280
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 144

ggccacttca ccaagcgccc cgaggagatt ggagctgntg accagggaca catgttcggg 60
tatgcgaccg atgagacccc tgagttgatg cccctcagcc atgtccttgc caccaagcta 120
ggtgctcgtc tcaccgaggt ccgcaagaac ggaacctgcc cctggctcag gcctgatggg 180
aagacccagg tgacagtcga gtaccgcaat gagggtggtg ccatgggtccc catccgtgtc 240
cacaccgtcc tcatctccac ccgcacgacg agacagtgc 280

<210> 145
<211> 251
<212> DNA
<213> Zea mays

<400> 145

ttcacctccg acgacgtggg cctcgacgcc gaccgtgca aggtgctggt gaacatcgag 60
cagcagtccc ccgacatcgc gcagggcgtg cacgggcact tcacgaagcg gcccgaggag 120
atcggcgcgg gcgaccaggg ccacatgttc gggtagcca ccgacgagac ccccgagctg 180
atgccgctga gccacgtgct ggccaccaag ctggggcgcg gcctcaccga ggtgcgcaag 240
aacggcactg g 251

<210> 146
<211> 270
<212> DNA
<213> Zea mays

<400> 146

atggtcccca tccgtgtcca caccgtcctc atctccacc agcacgacga gacagtgc 60

aatgatgaga tcgctgctga cctgaaggag catgtcatca agcctgtcat ccctgagcag 120
 taccttgacg agaagaccat cttccacctt aacccatctg gccgctttgt cattgggtgga 180
 cctcacggcg atgctggcct cactggccgc aagatcatca ttgacaccta cgggtggctgg 240
 ggagcccatg gtggtggcgt ttctccggca 270

<210> 147
 <211> 310
 <212> DNA
 <213> Zea mays

<400> 147

agacctgccg caacattggt tttgtgtcaa acgatgttgg gcttgacgcc gaccttgca 60
 aggtgctcgt gaacattgag cagcagtccc ctgatattgc tcagggtgtg catggccact 120
 tcaccaagcg ccccgaggag attggagctg gtgaccaggg acacatgttc gggatatgca 180
 ccgatgagac ccctgagttg atgcccctca gccatgtcct tgccaccaag ctaggtgctc 240
 gtctcaccga ggtccgcaag aacggaactg cccctggctc agcctgatgg gaagaccagt 300
 gacagtcgag 310

<210> 148
 <211> 292
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 148

ccaggtctcc tacgccatcg gcgtgcccga gcccctttcg gtgttcgtgg acacgtacgg 60
 caccggcgcg atccccgaca aggagatcct gaagatcgtg aaggagaact tcgacttcag 120
 gcccggcacg atcatcatca acctcgacct caagaaaggc ggcaacgggc gctacctcaa 180
 gacggcgggc tacgggcact ttgggagggg cgaccccgac ttcacctggg aggtggtgaa 240
 gcccctcaag gcggagaagc cgtcttctgc atgaggcgcc tcctctgttt ng 292

<210> 149
 <211> 279
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 149

```

aggtgacagt cgagtaccgc aatgaggggtg gtgccatggt ccccatgcgt gtccacaccg   60
tcctcatact ccaccagca cgacgagaca gtgaccaatg atgagatcgc tgctgacctg   120
aaggagcatg tcatcaagcc tgtcatcctg agcagtacct tgacgagaag accatcttcc   180
accttaacnc atctggccgc tttgtcattg gtggacctca cggcgatgct ggcctcactg   240
gccgcaagat catcattgac acctacggtg gctggggag                               279
  
```

<210> 150
 <211> 322
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 150

```

ctccctcttg ccggtcccg aataagagca gcagcgcaag aggtcggtag agcgagaaga   60
aggcaatggc ggccgagagc ntccttttca cctcggagtc cgtgaacgag gggcaccocg   120
acaagctgtg cgaccaggtg tcggacgccg tgcttgacgc atgcctcgcg caggaccocg   180
acagcaaggt ggctgcgag acctgcacca agaccaacat ggtgatggtg ttcggcgaga   240
tcacgaccaa ggcgaccgtg gacnacgaga agatcgtgcg cgacacctgc cgcgagatcg   300
ggttcactcc gacgacgtgg gc                               322
  
```

<210> 151
 <211> 283
 <212> DNA
 <213> Zea mays

<400> 151

```

gaataaagag cagcagcgca agaggtcggg agagcgagaa gaaggcaatg gcggccgaga   60
gcttcctttt cacctcggag tccgtgaacg aggggcaccc cgacaagctg tgcgaccagg   120
tgtcggacgc cgtgcttgac gcatgcctcg cgcaggaccc cgacagcaag gtggcctgcg   180
agacctgcac caagaccaac atggtgatgg tgttcggcga gatcacgacc aaggcgaccg   240
tggaactacga gaagatcgtg cgcgacacct gccgcgagat cgg                               283
  
```

<210> 152

<211> 316
 <212> DNA
 <213> Zea mays

<400> 152

cgtttgcctc ttctccctct tgccgggtccc gaataaagag cagcagcgca agaggtcggt 60
 agagcgagaa gaaggcaatg gcggccgaga gcttcctttt cacctcggag tccgtgaacg 120
 aggggcaccc cgacaagctg tgcgaccagg tgtcggacgc cgtgcttgac gcatgcctcg 180
 cgcaggaccc cgacagcaag gtggcctgcg agacctgcac caagaccaac atggtgatgg 240
 tgttcggcga gatcacgacc aaggcgaccg tggactacga gaagatcgtg cgcgacacct 300
 gccgcgagat cggggt 316

<210> 153
 <211> 277
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 153

gcatggccac ttcaccaagc gccccgagga gattngagct ggtgaccagg gacacatggt 60
 ccgggtatgc gaccgatgag acccctgagt tgatgccctt cagccatgtc cttgccacca 120
 agctaggtgc tcgtctcacc gaggtccgca agaacggaac ntgcccctgg ctcagggtcg 180
 atgggaagac ccaggtgaca gtcgagtacc gcaatgaggg tggtgccatg gtccccatcc 240
 gtgtccacac cgtcctcatc tccaccagc acgacga 277

<210> 154
 <211> 272
 <212> DNA
 <213> Zea mays

<400> 154

tgtcatcaag cctgtcatcc ctgagcagta ccttgacgag aagaccatct tccaccttaa 60
 cccatctggc cgctttgtca ttggtggacc tcacggcgat gctggcctca ctggccgcaa 120
 gatcatcatt gacacctacg gtggctgggg agcccatggt ggtggcgctt tctccggcaa 180
 ggaccaacc aaggttgacc gcagcggacc tatgtcgcaa ggcaggctgc caagagcatc 240
 gtcgccagcg gccttgctcg ccgcgccatc gt 272

<210> 155
 <211> 297
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 155

ccctcttgcc ggtcccgaat aaagagcagc agcgcaagag gtcggtagag cgagaagaag 60
 gcaatggcgg ccgagagctt ccttttcacc tcggagtccg tgaacgaggg gcaccccgac 120
 aagctgtgcg accaggtgtc ggacnccgtg cttgacgcat gcctcgcgca ggaccccgac 180
 agcaaggtgg cctgcgagac ctgcaccaag accaacaatgg tgatggtgtt cggcgagatc 240
 acgaccaagg cgaccgtgga ctacgagaag atcgtgcgcg acacctgccg cgagatc 297

<210> 156
 <211> 267
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 156

gtcggtagag cgagaagaag gcaatggcgg ccgagagctt ccttttcacn tcggagtccg 60
 tgaacgaggg gcaccccgac aagctgtgcg accaggtgtc ggacgccgtg cttgacgcat 120
 gcctcgcgca ggaccccgac agcaaggtgg cctgcgagac ctgcaccaag accaacaatgg 180
 tgatggtgtt cggcgagatc acgaccaagg cgaccgtgga ctacgagaag atcgtgcgcg 240
 acacctgccg cgagatcggg ttcacct 267

<210> 157
 <211> 261
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 157

aggagattgg agctggtgac caggggcaca tgtttgggta tgcgactgac gagaccctg 60
 agctgatgcc cctcagccat gtccttgcca ccaagcttgg tgctcgtctc acggagggtc 120
 gcaagaatgg aacctgcccc tggctcaggg ccgatgggaa gaccaggtg acagtggagt 180

accgcaacga ggggtggcgcc atgggttccca tccgtgtgca cacagtcntc atctctaccc 240
 agcacgacga gacagtcacc a 261

<210> 158
 <211> 288
 <212> DNA
 <213> Zea mays

<400> 158
 gccctcagc catgtccttg ccaccaagct aggtgctcgt ctcaccgagg tccgcaagaa 60
 cggaacctgc ccctggctca ggctgatgg gaagaccag gtgacagtcg agtaccgcaa 120
 tgaggggtgt gccatgggtcc ccatccgtgt ccacaccgtc ctcatctcca cccagcacga 180
 cgagacagtg accaatgatg agatcgctgc tgacctgaag gagcatgtca tcaagcctgt 240
 catccctgag cagtacttga cgagaagaca ttttccactt aaacccat 288

<210> 159
 <211> 311
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 159

cttctccctc ttgccgttcc cgaataaaga gcagcagcgc aagaggtcgg tagagcgaga 60
 agaaggcaat ggcggccgag agcttcnttt tcacntcgga gtccgtgaac gaggggcacc 120
 ccgacaagct gtgcgaccag gtgtcggacg ccgtgcttga cgcatgcctc gcgcaggacc 180
 ccgacagcaa ggtggcntgc gagacntgca ccaagaccaa cntggtgatg gtgttcggcg 240
 agatcacgac caaggcgacc gtggactacg agaagatcgt gcgcgacacc tgccgcgaga 300
 tcgggttcac t 311

<210> 160
 <211> 267
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 160

cggacgctgg ngcggtggtg ccttctccgg caaggacccc accaaggtgg accgcagcgg 60

cgccctaacgt ggccaggcag gccgccaaga gcatcgtggc cagcggcctc gcccgccgct 120
gcctcgtgca ggtgtcgtac gccatcggct gccggagccc ctgtccgtgt tcgtcaactc 180
gtacggcacc ggcacgatcc ccgacaagga gatcctcaag atcgtgaagg agaacttcga 240
cttcaggccc gggatgatca gcatcaa 267

<210> 161
<211> 284
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 161

agctgtcgac acattcctct tcacctcgga gtctgtgaac gagggacacc ctgacaagct 60
ctgtgaccag gtctcagatg ccgttcttga cgcttgccctt gctgaggacc ctgacagcaa 120
ggttgcttgt gagacctgca ccaagaccaa cattcancat ggtctttggt gagatcacca 180
ccaaggccaa tgttgactac gagaagattg tcaggagagac ctgccgcaac attgggtttg 240
tgtcaaacga tgttggttg acgccgacca ctgcaagggtg ctcg 284

<210> 162
<211> 237
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 162

ccatcttcca cctcaaccg tccgggcgct tcgtcatcgg cgggccccac ggtgacgcg 60
gcctcaccgg ccgcaagatc atcatcgaca cgtacggcgg ctggggagcc cacggcggtg 120
gcgccttctc cggcaaggac cccaccaagg tggaccgcag cggcgcctac gtggccaggc 180
aggccgccaa gagcatcgtg gccagcggcc tcgccgcgctg ctgcctcttg naggttt 237

<210> 163
<211> 236
<212> DNA
<213> Zea mays

<400> 163

acctgcgcct ggctgaggcc cgacggcaag acccaggtga cggaggagta cgtgaacgag 60

ggcggcgcca tgggtgccgt ccgcgtgcac accgtgctca tctccacca gcacgacgag 120
accgtcacca acgacgagat cgccgccgac ctcaaggagc acgtcatcaa gcccgatgatc 180
cctgagaagt acctcgacga gaagaccatc ttccacctca acccggtccgg gcgctt 236

<210> 164
<211> 272
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 164

ggtggacctc acggcgatgc tggcctcact ggccgcaaga tcatcattga cacctaögg 60
ggctggggag cccatggtgg tggcgctttc tccggcaagg acccaaccaa ggttgaccgc 120
agcggagcct atgtcgcaag gcaggctgcc aagagcatcg tcgccagcgg ccttgctcgc 180
cgcgccatcg tccagggtgc ttacgccatc ggntggcccg agcctctctc cgtgttcgtc 240
gacacgtacg gcaccggcgc gatccccgac aa 272

<210> 165
<211> 258
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 165

ccaagctagg tgctcgtctc accgaggncc gcaagaacgg aacctgcccc tggctcaggc 60
ctgatgggaa gaccaggtg acagtcgagt accgcaatga gggtggtgcc atggtcccca 120
tccgtgtcca caccgtcctc atctccacc agcacgacga gacagtgacc aatgatgaga 180
tcgctgctga cctgaaggag catgtcatca agcctgtcat ccctgagcag taccttgacg 240
agaagaccat cttccacc 258

<210> 166
<211> 298
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 166

tctccctctt gccggtcccg aataaagagc agcagcgcaa gaggtcggta gagcgagaag 60

aaggcaatgg cggccgagag cttccttttc acctcggagt ccgtgaacga ggggcacccc 120
gacaagctgt gcgaccaggt gtcggacgcc gtgcttgacg catgcntcgc gcaggacccc 180
gacagcaagg tggcctgcga gacctgcacc aagaccaaca tggatgatggg gttcggcgag 240
atcacgacca aggcgaccgt ggactacgag aagatcgtgc gcgacacctg ccgcgaga 298

<210> 167

<211> 298

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 167

cttctccctc ttgccggtcc cgaataaaga gcagcagcgc aagaggtcgg tagagcgaga 60
agaaggcaat ggcggccgag agcttccttt tcacctcgga gtccgtgaac gaggggcacc 120
ccgacaagct gtgcgaccag gtgtcggacg ccgtgcttga cgcattgcctc gcgcaggacc 180
ccgacagcaa ggtggcctgc gagacctgca ccaagaccaa catggatgatg gtgttcggcg 240
agatcacgac caaggcgacc gtggactacg agaagatent gcgcgacacc tgccgcga 298

<210> 168

<211> 265

<212> DNA

<213> Zea mays

<400> 168

ccgaggtcgg caagaacgga acctgcccct ggctcaggcc tgatgggaag acccaggatga 60
cagtcgagta ccgcaatgag ggtgggtgcca tgggtcccat ccgtgtccac accgtcctca 120
tctccacca gcacgacgag acagtgacca atgatgagat cgctgctgac ctgaaggagc 180
atgtcatcaa gcctgtcatc cctgagcagt accttgacga gaagaccatc ttccacctta 240
acccatctgg ccgtttgtca ttggt 265

<210> 169

<211> 251

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 169

```

cccgacaagc tgtgcgacca ggtgtcggac gccgtgcttg acgcatgcct cgcgcaggac 60
cccgacagca aggtggcctg cgagacctgc accaagacca acatggtgat ggtgttcggc 120
gagatcacga ccaaggcgac cgtggactac gagaagatcg tgcgcgacac ctgccgcgag 180
atcgggttca cctccgacga cgtgggcctc gacgccgacc gctgcaagga ngctggtgaa 240
catcgagcag c 251

```

```

<210>      170
<211>      305
<212>      DNA
<213>      Zea mays

```

```

<223>      unsure at all n locations
<400>      170

```

```

ctcttgccgg tcccgaataa agagcagcag cgcaagaggt cggtagagcg agaagaaggc 60
aatggcgggc gagancttcc ttttnanctc ggaatncgtg aacgaggggc ancccgacaa 120
gctgtgcgac caggtgtcgg acgccgtgct tgacgnatgc ctgcgcgagg accccgacag 180
caaggtggcc tgcgagacct gcaccaagac caacatggtg atggtgttcg gcgagatcac 240
gaccaaggcg accgtggact acgagaagat cgtgcgcnac acctgccgcg agatcggggt 300
cactc 305

```

```

<210>      171
<211>      267
<212>      DNA
<213>      Zea mays

```

```

<223>      unsure at all n locations
<400>      171

```

```

cntacggtgg ctggggagcc cacggcgggg gcgccttctc cggcaaggac ccgaccaagg 60
tggaccgcag cggggcctac gtcncgnggc aggctgccaa gagcatcgtc gccgccggcc 120
tcgcccgcg tgccatcgtc caggtctcct acnccatcgg cgtgcccgan cccctgtcgg 180
tgttcgtgga cacgtacggc accggcgcgga tccccgacaa ggagatcctg aagatcgtga 240
aggagaactt cgacttcagg cccggca 267

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<210>      172
<211>      250

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<212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 172

ccaatgatga gatcgctgct gacctgaagg agcatgtcat caagcctgtc atccctgagc 60
 agtaccttga cgagaagacc atcttccacc ttaacccatc tggccgcttt gtcattgggtg 120
 gacctcacgg cgatgctggc ctactggcc gcaagatcat cattgacacc tacgggtggct 180
 ggggagccca tgggtggtggc gctttctccg gcaaggaccc aaccaagggt gaccgcagcg 240
 ganctatgtc 250

<210> 173
 <211> 304
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 173

ctcctccctc ctgccgggtc cttataaag agcagcagcg caanggttg gtagancgag 60
 cgagaagaag gcaatggcgg cggagagctt cctgttcacc tcggagtccg tgaacgaggg 120
 gcaccagac aagctgtgcg accaggtgtc ggacgcggtg ctggacgctt gcctggcgca 180
 ggaccccgac agcaaggtgg cctgcgagac ctgcaccaag acgaacatgg tgatggtggt 240
 cggcgagatc accaccaagg cgagcgtgga ctacgagaag atcgtgcgcg acacctgccg 300
 cgag 304

<210> 174
 <211> 328
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 174

catccgtttg cctcttctcc ctcttgccgg tcccgaataa agagcagcag cgcaagaggt 60
 cggtagagcg agaagaaggc aatggcggcc gagagcttcc ttttcacctc ggagtccgtg 120
 aacgangggc accccgacaa gctgtgcgaa ccaggtgtcg gacgccgtgc ttgacgcatg 180
 cctcgcgcag gaccccgaca gcaangtggc ctgcgagacc tgcaccaaga ccaacatggt 240

gatggtgttc ggcgagatca cgaccaaggc gaccgtggac tacgagaaga tcgtgcgcga 300
cacctgccgc gagatcgggt tcactccg 328

<210> 175
<211> 297
<212> DNA
<213> Zea mays

<400> 175
tctccctctt gccggtcccg aataaagagc agcagcgcaa gaggtcggta gagcgagaag 60
aaggcaatgg cggccgagag ctcccttttc acctcggagt ccgtgaacga ggggcacccc 120
gaacaagctg tgcgaccagg tgtcggacgc cgtgcttgac gcatgcctcg cgcaggaccc 180
cgacagcaag gtggcctgcg agacctgcac caagaccaac atgggtgatgg tgttcggcga 240
gatcacgacc aaggcgaccg tggactacga gaagatcgtg cgcgacacct gccgcga 297

<210> 176
<211> 275
<212> DNA
<213> Zea mays

<400> 176
agatgccgtt cttgacgctt gccttgctga ggacctgac agcaagggtt cttgtgagac 60
ctgcaccaag accaacaatgg tcatggtctt tggtagatc accaccaagg ccaatgttga 120
ctacgagaag attgtcaggg agacctgccg caacattggt tttgtgtcaa acgatgttgg 180
gcttgacgcc gaccactgca aggtgctcgt gaacattgag cagcagtccc ctgatatgct 240
caggggtgtgc atggccattc accaagcgcc ccgag 275

<210> 177
<211> 534
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 177

gaggnagctt tnannggggn ttaagggnat ttttaaacc tnnnttgnat tcccgggtcg 60
acccacgcgt ccgcttgccg gtcccgaata aagagcagcn ncgcaagagg tcggtagagc 120
gagaagaagg caatggcggc cgagagcttc cttttcacct cggagtccgt gaacgagggg 180

caccccgaca agctgtgcga ccaggtgtcg gacgccgtgc ttgacgcatg cctcgcgcag 240
gaccccgaca gcaaggtggc ctgcgagacc tgcaccaaga ccaacatggt gatggtgttc 300
ggcgagatca cgaccaaggc gaccgtggac tacgagaaga tcgtgcgcga caccttnccg 360
cgagatcggg ttcacctttc gacgacntgg gccttgacgc ccacccggtt caaggtgctt 420
gtgnacattg agcaagaatt ccccgaaatt gngcaaggcg ttcaccggca ctttacgaac 480
cggcccnagg aagatcggnc cggccnacca nggncaattt tttgggtccc cccc 534

<210> 178
<211> 248
<212> DNA
<213> Zea mays

<400> 178
gatgccctc agccatgtcc ttgccaccaa gcttgggtgct cgtctcacgg aggttcgcaa 60
gaatggaacc tgcccctggc tcaggcccga tgggaagacc caggtgacag tggagtaccg 120
caacgagggg ggcgccatgg ttcccatccg tgtgcacaca gtcctcatct ctaccagca 180
cgacgagaca gtcaccaacg acgagattgc tgctgacctg aaggagcacg tcatcaagcc 240
agtcatcc 248

<210> 179
<211> 302
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 179

ctcctccctc ctgccgggtc cttaataaag agcagcagcg caagagggtg gtagagcgag 60
cgagaagaag gcaatggcgg cggagagcnt cctgttcacc tcggagtccg tgaacgaggg 120
gnacccagac aagctgtgcg accaggtgtc ggacgcggtg ctggacgcct gcctggcgca 180
ggaccccgac agcaaggtgg cctgcgagac ctgcaccaag acgaacatgg tgatggtgtt 240
cggcgagatc accaccaagg cgagcgtgga ctacgagaag atcgtgcgcg acacctgccg 300
cg 302

<210> 180

<211> 281
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 180

angtctccta cgccatcggc gtggcccgan cccctgtcgg tgttcgtgga cacgtacggc 60
 accggcgcgga tccccgacaa ggagatcctg aagatcgtga aggagaactt cgacttcagg 120
 cccggcatga tcatcatcaa cctcgacctc aagaaaggcg gcaacggggcg ctacctcaag 180
 acggcggcct acgggcactt tgggagggac gaccccgact tcacctggga aggtggtgaa 240
 gccctcaag gcggagaagc cgtcttctgc atgaggcgcn t 281

<210> 181
 <211> 269
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 181

gacacattcc tcttcacctc ggagtctgtg aacgagggac accctgnana agctctgtga 60
 ccaggtctca gatgccgttc ttgacgcttg ccttgctgag gaccctgaca gcaagggttg 120
 ttgtgagacc tgcaccaaga ccaacatggt catggtcttt ggtgagatca ccaccaaggc 180
 caatgttgac gccgagaaga ttgtcagggg gacctgccgc aacattgggt ttgtgtcaaa 240
 cgatgttggg cttgacgcng accatgcaa 269

<210> 182
 <211> 286
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 182

ccctcttgcc ggtcccgaaat aaagagcagc agcgcaagag gtcggtagag cgagaagaag 60
 gcaatggcgg ccgagagctt ccttttcacc tcggaanccg tgaacgaggg gcaccccgac 120
 aagctgtgcy accaggtgtc ggacgccgtg cttgacgcat gcctcgcgca ggaccccgac 180
 agcaaggtgg cctgcgagac ctgcaccaag accaacadtg tgatggtgtt cggcgagatc 240
 acgaccaagg cgaccgtgga ctacgagaag atcgtgcgcy acacct 286

<210> 183
 <211> 240
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 183

gcgcgacacc tgccgcgaga tcgggttcac ctccgacgac gtgggcctcg acgccgaccg 60
 ctgcaagggtg ctggtgaaca tcgagcagca gtcccccgac atcgcgcagg gcgtgcacgg 120
 gcacttcacg aagcggcccg aggagatcgg cgcgggagac cagggccaca tgttcgggta 180
 cgncaccgac gagacccccg agctgatgcc gctgagccac gtggtggcca ccaagctggg 240

<210> 184
 <211> 250
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 184

cctgagcagt accttgacga gaagaccatc ttccacctta acccatctgg ccgctttgtc 60
 attggtggac ctacggcgga tgctggcctc actggccgca agatcatcat tgacacctac 120
 ngtggctggg gagcccatgg tgggtggcgt ttctccggca aggacccaac caaggttgac 180
 cgcagcggag cctatgtcgc aaggcaggct gccaaagagca tcgtcgccag cggccttgct 240
 cgccgcgcca 250

<210> 185
 <211> 305
 <212> DNA
 <213> Zea mays

<400> 185

gcctcttctc ctccctcctg ccgggtcctt aataaagagc agcagcgcaa gaggttggtg 60
 gagcgagcga gaagaaggca atggcgggcg agagcttctt gttcacctcg gagtccgtga 120
 acgaggggga cccagacaag ctgtgcgacc aggtgtcgga cgcggtgctg gacgcctgcc 180
 tggcgagga ccccgacagc aaggtggcct gcgagacctg caccaagacg aacatggtga 240
 tgggtgttcg cgagatcacc accaaggcga gcgtggacta cgagaagatc gtgcgcgaca 300

cctgc 305

<210> 186
 <211> 305
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 186

cgacagcaga gngggcnngc gagacctgca ccaagaccaa catggtgatg ttgttcggcg 60
 agatcacgac caaggcganc gtggactacg agaagatcgt gcgcgacacc tgatcgcgag 120
 atcgggttca cctccccgacg acgtgggcct cgacgccgac cgctgcnagg ngctggtgaa 180
 natcgagcan cagtcnccccg acatcgcgca ngcntgcacg ggcacttcac naagcgnccc 240
 gangagatcg ncgcggncta ccatnngcac atgttcgggt acncnaccna nnagacnnnc 300
 gagct 305

<210> 187
 <211> 274
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 187

ccttgccacc aagcttgggtg ctggtctcac ggaggttcgc aagantggaa cctgccccctg 60
 gctcaggccc gntgggaaga ccaggtgac agtggagtac cgcaacgagg gtggcgccat 120
 ggttcccatc cgtgtgcaca cagtcctcat ctctaccag cagcagcaga cagtcancaa 180
 cgacgagatt gctgctgacc tgaaggagca cgtcatcaag ccagtcatcc ccgagnagnn 240
 acctcgacga gaagacaatc ttccacanac tnna 274

<210> 188
 <211> 232
 <212> DNA
 <213> Zea mays

<400> 188

agcacgtcat caagccagtc atccccgagc agtacctcga cgagaagaca atcttccacc 60
 tcaaccgctc tggccgcttc gtcatcggcg gacctcacgg cgacgctggc ctactggcc 120

ggaagatcat catcgacacc tacggtggct ggggagccca cggcgggggc gccttctccg 180
gcaaggaccc gaccaaggtg gaccgcagcg gggcctacgt cgcgaggcag gc 232

<210> 189
<211> 243
<212> DNA
<213> Zea mays

<400> 189
gcccctcagc catgtccttg ccaccaagct tgggtgctcgt ctcacagagg ttcgcaagaa 60
tggaacctgc ccctggctca ggcccgatgg gaagaccag gtgacagtgg agtaccgcaa 120
cgagggtggc gccatggttc ccatccgtgt gcacacagtc ctcatctcta cccagcacga 180
cgagacagtc accaacgacg agattgctgc tgacctgaag gagcacgtca tcaagccagt 240
cat 243

<210> 190
<211> 290
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 190

ccctcttgcc ggtcccgaat aaagancagc agcgcaagag gtcggtagag cnagaagaan 60
gcaatggcgg ccgagagctt ccttttcacc tcggagtccg tgaacgaggg gcaccccgac 120
aagctgtgcg accaggtgtc ggacgccgtg cttgacgcat gcctcgcgca ggaccccgac 180
ancnaggtgg cctgcgagac ctgcaccaag accaacaatgg tgatgggtgtt cggcnagatc 240
acgaccaagg cgaccgtgga ctacnagaag atcgtgcgcg acacctgccg 290

<210> 191
<211> 266
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 191

gncacattcc ncttcacctc ggngtctgtg ancgaggag accctgacna gctctgtgac 60
caggctctcag atgccgttct tgacgcttgc cttgctgagg ancctgacag caaggttgct 120

tgtgagacct gcaccaagac caacatggtc atggtctttg gtgagatcac caccaaggcc 180
aatgttgact acgagangat tgtcaggag acctgccgca acattgggtt tgtgtcaaac 240
gatgttgggc tgacgccgac cactgc 266

<210> 192
<211> 276
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 192

gtgccatggt ccccatccgt gtccacaccg tcctcatctc caccagcac gacgagacag 60
tgaccaatga tgagatcgct gctganctga aggagcatgt catcaagcct gtcacccctg 120
agcagtacct tgacgagaag accatcttcc acttaaccca tctgcccgtt ttgtcattgg 180
tggacctcac ggcgatgctg gcctcactgg ccgcaagatc atcattgaca ctacggtggc 240
tggggagccn atgntgtggc gtttncnggg aaggcc 276

<210> 193
<211> 292
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 193

anggtggctg gggagcccat ggtggtggcg ctttctccgg caaggaccca accaagggtg 60
acngcagcgg agcctatgtn cgcaaggcag gctgccaaga gcatcgtcgc cagcggcctt 120
gctcgccgcg ccatcgtcca ggtgtcttac gccatcggcg tgcccagacc tctctccgtg 180
ttcgtcgaca cgtacggcac cggcgcgac cccgacaagg agatcctcaa gattgtcaag 240
gagaattcga tticaggcct ggcatgatct catcaacctt gactcaagaa gg 292

<210> 194
<211> 226
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 194

ctacgagaag atcgtgcgcg acacctgccg cgagatcggg ttcacctccg acgacgtggg 60
cctcgacgcc gaccgctgca aggtgctggt gaacatcgag cagcagtccc ccgacatcgc 120
gcagggcggtg cacgggcact tcacgaagcg gcccgaggag atcggcgcgg gcgaccaggg 180
ccacatgttc gggtagcca ccgacgagac ncccagctg atgcng 226

<210> 195
<211> 289
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 195

cttcnccctc ttgccggtcc cgaataaaga gcagcagcgc aagaggncgg tagagcgaga 60
agaaggcaat ggcggccgag agcttccttt tcacctcgga gtccgtgaac gaggggcacc 120
ccgacaagct gtgcgaccag gtgtcggacg ccgtgcttga cgcattgcctc gngcaggacc 180
ccgacagcaa ggtggcctgc gagacctgca ccaagaccaa catggtgatt gtgttcggcg 240
agatcacgac canggcgacc gtggactacg agaagatcgt gcgcnacac 289

<210> 196
<211> 300
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 196

cgcctcttct cctccctcct gccgggtcct taataaagag cagcagcgca agnggttggt 60
agagcgagcg agaagaaggc aatggcgggc gagagcttcc tgttcacctc ggagtccgtg 120
aacgaggggc acccagacaa gctgtgcgac caggtgtcgg acgcggtgct ggacgcctgc 180
ctggcgcagg acccgacag caaggtggcc tgcgagacct gcaccaagac gaacatggtg 240
atggtgttcg gcgagatcac caccaaggcg agcgtggact acgagaagat cgtgcgcgac 300

<210> 197
<211> 284
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 197

ccctcttgnc ggtcccgaat aaagagcagc agcgcaagag gtcgntagag cgagaagaag 60
gcaatggcgg ccgagagctt ccttttcacc tcggagtccg tgaacgaggg gcaccccgac 120
aagctgtgcg accaggtgtc ggacgccgtn cttgangcat gcctcgcgca ggaccccgac 180
agcaaggtgg cctgcgagac ctgnaccaag acnaacatgg tgatggtgtt cggcgagatc 240
acgaccaagg cgaccgtgga ctacgagaag atcgtgcgcg acac 284

<210> 198
<211> 282
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 198

gtcccgaata aagagcagca gcgcaagang tcggtagagc ganaanaang caatggcggc 60
naagagcttc cttttcacct cggagtccgt gaacgagggg cancccgaac aagctgtncg 120
accaggtgtc ggacgccgtg cttgacgcat gcctcgcgca ggaccccgac agcaaggtgg 180
cctgcgagac ctgcaccaag accaacaatng tgatggtgtt cggcgagatc acgaccaang 240
cgaccgtgga ctacgagaag atcgtgcgcg acacctgccg cg 282

<210> 199
<211> 292
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 199

acgccatcgg ntgccgganc ccctgtccgt gttcgtcaac tcgtacggca ccggcacgat 60
ccccgacaag gagatcctca agatcgtgaa ggagaacttc gacttcaggc ccgggatgat 120
cagcatcaac ctcgacctga agaagggcgg caacaggttc atcaagaccg ncgctacgg 180
ccacttcggc cgtgacgacg ccgacttcac ctgggaggtg gtgaagcccc tcaagttcga 240
caaggcatcg gcttaagggtt gggantgtca tgtggacatg angatacntc ct 292

<210> 200
<211> 291
<212> DNA
<213> Zea mays

<223> unsure at all n locations
 <400> 200

cgtttgccctc ttctccctct tgccgggtccc gaataaagag cagcagcgca agaggtcggg 60
 agagcgagaa gaaggcaatg gcggccgaga gcttcctttt cacctcggag tccgtgaacg 120
 angggcaccc cgacaagctg tgcgaccagg tgtcggacgc cgtgcttgac gcatgcctcg 180
 cgcaggaccc cgacagcaag gtggcctgcg agacctgcac caagaccaac atggtgatgg 240
 tgttcggcga gatcacgacc aaggcgaccg tggactacga gaagatcgtg g 291

<210> 201
 <211> 337
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 201

gtnttacgcn atcngcaggc ccnagnntct ctncgtgttc gtcgacacgt anggcanccg 60
 cgngatnncn ganaaggaga tcctcaagat tgtnaaggng aactnngatt tcaggcctgg 120
 catgatcatc atcaaccttg acctcaagan aggcggnaac gggcgctacc tcaagacggc 180
 ggattanggc cactttggaa gggangaccc tgacttcacc tgggatgtgg tnaagccact 240
 caantcggag aaacctnctg cctaaggcgg nttnttttc agtaagaagc ttttggtggt 300
 ctgctgtgct taatcatgcn ttatatggct tctacac 337

<210> 202
 <211> 279
 <212> DNA
 <213> Zea mays

<400> 202

cttctccctc ttgccgggtcc cgaataaaga gcagcagcgc aagaggtcgg tagagcgaga 60
 agaaggcaat ggccggccgag agcttccttt tcacctcgga gtccgtgaac gaggggcacc 120
 ccgacaagct gtgcgaccag gtgtcggacg ccgtgcttga cgcagcctc gcgcaggacc 180
 ccgacagcaa ggtggcctgc gagacctgca ccaagaccaa catggtgatg gtgttcggcg 240
 agatcacgac caaggcgacc gtggactacg agaagatcg 279

<210> 203
 <211> 443
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 203

 aaantcacgg gtcgacncac gcgtcnnnac ngactnntac taacgcgtgg gcggacgcgt 60
 ggggganggt gtggacacgg ntggggacca tggcagcacc ctcatctgagg taatcgactg 120
 tcaccctga gcagtacctt gacgagaaga ccatcttcca ccttaacca tctggccgct 180
 ttgtcattgg tggacctcac ggcgatgctg gcctcactgg ccgcaagatc atcattgaca 240
 cctacgggtg ctggggagcc catggtggtg gcgctttctc cggcaaggac ccaaccaagg 300
 ttgaccgcag cggagcctat gtcgcaaggc angctgcnaa gagcatcgtc gccagcgggc 360
 cttgctcgnc cnggccatcg tccaagggtg ncttaagcca atcggentgc ccgancctnt 420
 ctccgntttt cgtcnaaang tta 443

<210> 204
 <211> 290
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 204

 tgcctcttct ccctcttgcc ggtcccgaat aaagagcagc agcgcaagag gtcggtagag 60
 cgagaagaag gcaatggcgg ccgagagctt ctttttcacc tcggagtccg tgaacgangg 120
 gcaccccgac aagctgtgag accaggtgtc ggacgccgtg cttgacgcat gcctcgcgca 180
 ggancccgac agcaagggtg cctgagagac ctgcaccaag accaacaagg tgatggtgtt 240
 cggcgagatc acgaccaagg cgaccgtgga ctacgagaag atcgtgcgcg 290

<210> 205
 <211> 304
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 205

 cgcctctctn ccnccnccn gccgggtcct taataaagag cagcagcgca agangttggt 60

agagcgagcg agaaagaagg catggcggcg gagagcttcc tgttcacntc ggagtccgtg 120
aacgaggggc acccagacaa gctgtgcgac caggtgtcgg acgcggtgct ggacncctgc 180
ctggcgcagg accccgacag caaggtggcc tgcgagaccn gcaccaagac gaacatggtg 240
atggtgttcg gcgagatcac caccaaggcg agcgtggacn acgagaagat cgtgcgcgac 300
acct 304

<210> 206
<211> 290
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 206

ctcttctcct ccctcctgcc gtttccttaa taaagagcag cagcgcaaga ggttggtaga 60
gcgagcgaga agaaggcaat ggcggcggag agcttcctgt tcacctcgga gtccgtgaac 120
gaggggcacc cagacaagct gtgcgaccag gtgtcggacg cggtgctgga cgctgcctg 180
gcgcaggacc ccgacagcaa ggtggcctgc gagacctgca ccaagacgaa catggtgatg 240
gtgttcggcg agatcaccac caaggcgagc gtngactacg agaagatcgt 290

<210> 207
<211> 247
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 207

gatcaccacc aaggccaatg ttgactacga gaagattgtc agggagacct gccgcaacat 60
tggttttgtg tcaaacgatg ttgggcttga cgccgaccac tgcaaggtgc tcgtgaacat 120
tgagcagcag tccctgata ttgctcaggg tgtgcatggc cacttcacca agcgccccga 180
ggagattgga gctggtgacc agngacacat gttcgggtat gcgaccgatg agaccctgag 240
ttgatgc 247

<210> 208
<211> 291
<212> DNA
<213> Zea mays

<223> unsure at all n locations
 <400> 208

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cgtttgccctc ttctccctct tgccggtccc gaataaagag cagcagcgca agaggtcggt   60
agagcgagaa gaaggcaatg gcggccgaga gcttcntttt cacctcggag tccgtgaacg   120
aggggcaccc cgacaagctg tgcgaccagg tgtcggacgc cgtgcttgac gcatgcctcg   180
cgcaggaccc cganagcaag gtggcctgcg agacctgcac caagaccaac atggtgatgg   240
tgttcggcga gatcacgacc aaggcgaccg tggactacga gaagatcgtg c               291

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<210> 209
 <211> 428
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 209

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cggacgcttg ggctttcgcg tggggtcgac acgtacgggn ccgggggggat cnccgacaag   60
gagatcctca agattgtcaa ggagaacttt tatttcaggc ctggcatgat catcatcaac   120
cttgacctca agaaaggcgg caacgggcgc tacctcaaga cggcggncta cggccacttt   180
ggaagggacg accctgactt cacctgggag gtggtgaagc cactcaagtc ggagaaacct   240
tctgcctaag gcggcctttt ttttcagtaa gaagcttttg gtggtctngc tgtgcttaat   300
catgctttta tatggcttct acatgttggg gntcttttct tgatctgcac cgggcttata   360
gnttggtgtg nactgcccta ataagtgggt cttatgagga ctggttctgg ttttgctgct   420
tatgtngt                                     428

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<210> 210
 <211> 295
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 210

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ccttaatnaa gngcagcagc gcaaggtgag ccgccagctt gccccagggt ggtagagcga   60
gcgagaagaa ggcaatggcg gcggagagct tcctgttcac ctcggagtcc gtgaacgagg   120
ggcaccacga caagctgtgc gaccaggtgt cggacgcggt gctggacgcc tgcttggcgc   180
aggaccccga cagcaagggt gcctgcgaga cctgcaccaa gacgaacatg gtgatgggtg   240

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tccgngagat caccaccaag gcgagcgtgg actacgagan gntcgtgcnc gacac 295

<210> 211
 <211> 257
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 211

ggccacttca ncaagcgtcc cgaggagatt ggagctggtg accagggacn cgtgttgccg 60
 gtatgcgacc gatgagaccc ctgagttgnt gcccctcagc catgtccttg ccaccaagct 120
 aggtgctcgt ctactgagg tccgcaagaa cggaacctgc ccctggctca ggcctgatgg 180
 gaagaccnnn gtgacagtcg agtaccgcaa tgaggggtgg gcnatgggcc cngnnngtgt 240
 ccanaccgtc ctcat 257

<210> 212
 <211> 288
 <212> DNA
 <213> Zea mays

<400> 212

ctcggatccg cccgaccacg accaccccg ctcgcccgcg cgcagaagca gcagatcaga 60
 gaagatggcc ggactcgaca ccttcctctt cacctcggag tccgtgaacg agggacaccc 120
 tgacaagctc tgcgaccagg tctcagatgc tgttctggac gcttgccctg ctgaggaccc 180
 tgacagcaag gttgcttgcg agacctgcac caagaccaac atgggtcatgg tcttttgtga 240
 gatcaccacc aaggcaatgt cgactagaga agattgtcag ggagacat 288

<210> 213
 <211> 467
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 213

ttnnnttcc ttnggccccn aaaggtaaaa ggactcccgg gtcgaccac gcgtcagcca 60
 cgcgtccgcc caccgctccg cccacgcgtc cgcacacgcg tccgcccacg cgtccgcccc 120
 ctctgcccgg gtccttaata aagagcagca gcgcaagggtg agccgccagc ttgccccggt 180

tggtagagcg agcganaaga angcaatggc ggcgganagc ttcctgttca cctcgggtcc 240
 gtgaacgagg ggcacccaga caagctgtgc gaccaggtgt cggacgcggt gctggcgctt 300
 gcctggcgca ggaccccgac agcaagggtgg cctgcgagac ctgcaccaag acgacatggg 360
 gatggtgttc ggcgagatna ccaccaaggc gagcgtggac tacgaaaaag atntgcgcga 420
 aaactggccg ccaagatcgg gttcacctcc gacgacgtgg ggctcga 467

<210> 214
 <211> 287
 <212> DNA
 <213> Zea mays

<400> 214
 cggacctggg cgttctccct cttgccggtc ccgaataaag agcagcagcg caagaggtcg 60
 gtagagcgag aagaaggcaa tggcggccga gagcttcctt ttcacctcgg agtccgtgaa 120
 cgaggggcac cccgacaagc tgtgcgacca ggtgtcggac gccgtgcttg acgcatgcct 180
 cgcgaggac cccgacagca aggtggcctg cgagacctgc accaagacca acatggtgat 240
 ggtgttcggc gagatcacga ccaaggcgat cgtggactac gagaaga 287

<210> 215
 <211> 294
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 215

ctcttctcct ccctcctgnn gggtccttaa taaagagcag cagcgcaaga ngttggtaga 60
 gcgancgana agaaggcaat ggcggcggag agcttctgt tcanctcgga gtccgtgaac 120
 gaggggcacc cagacaagct gtgcgaccag gtgtcggacg cggtgctgga cgcctgcctg 180
 gcgcaggacc ccgacagcaa ggtggcctgc gagacctgca ccaagacgaa catggtgatg 240
 gtgttcggcg agatcaccac caaggcgagc gtggactacn agaagatcgt gcgc 294

<210> 216
 <211> 228
 <212> DNA
 <213> Zea mays

<400> 216

cggaacctgc ccctggctca ggcctgatgg gaagaccag gtgacagtcg agtaccgcaa 60

tgaggggtggg gccatgggtcc ccatccgtgt ccacaccgtc ctcatctcca cccagcacga 120

cgagacagtg accaatgatg agatcgctgc tgacctgaag gagcatgtca tcaagcctgt 180

catccctgag cagtaccttg acgagaagac catcttccac cttaaccc 228

<210> 217

<211> 268

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 217

cggcccactt caccaagcgc ccantaggag attggagctn gtgaccaggg gcacatgtan 60

gggtatgcga ctgacgagac ccctgagctg atgcccctca gccatgtcct tgccaccaag 120

cttggtgctc gtccacggag gttcgcaaga atggaacctg cccctggctc aggcccgatg 180

ggaagacca ggtgacagtg gagtaccgca agaggggtggc gccatggttc ccatccgtgt 240

gcacacagtc ctcatctcta cccagcag 268

<210> 218

<211> 263

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 218

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catggtnatg gtnttcggcg agatcacgac caaggctacc gtgggactac gagaagatcg 120

tgcgctacac ctgncgagag atcnggttca cctccgacga cgtgggcctc gacgcctacc 180

gctncaaggt gctggtgaac atctagcagc agtccccga catnncgag ggcgtgcacg 240

ggcattcnng aagcggcccg agg 263

<210> 219

<211> 256

<212> DNA

<213> Zea mays

<223> unsure at all n locations
 <400> 219

gagccacg cggggcgcc ttctccggca aggacccgac caaggtggac cgcagcgggg 60
 cctacgtcgc gaggcaggct gccaaagagca tcgtcgccgc cggcctcgcc cgccgcgcca 120
 ttgtccagggt ctctacgcc atcgggtgcc cganccctt tcggtgttcg tggacacgta 180
 cggcaccggc gcgatccccg acaaggagat cctgaagatc gtgaaggaga attcgacttc 240
 aggcccgga tgatca 256

<210> 220
 <211> 334
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 220

anngccggag cccctgtccg tgttcgtcaa ctctacggc accggcacga tccccgaaa 60
 ggagatcctc aagatcgtga aggagaactt cgacttcagg cccgggatga tcagcatcaa 120
 cctcgacctg aagaaggcg gcaacagggt catcaagacc gccgcctacg gccattcggc 180
 cgtgacgacg ccgacttcac ctgggagggt gtgaagcccc tcaagttcga caaggcatcg 240
 gcttaagggt nggatgtcac tgtggacatg aggactactt cctctggctc tgctgttacc 300
 tgcaagcatt gtgctgtgga tgtgtgtgtt tgat 334

<210> 221
 <211> 255
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 221

ccccgacaag ctgtgcgacc aggtgtcgga cgccgtgctt gacgnatgcn tcncgcagg 60
 ccccnncanc nnggtggcct gcgagacctg caccaagacc aacatngtga tgggtgttcg 120
 cgagatcacg ancaaggcga ccgtggacta cgagnngatc gtncgcgaca cctgccgcga 180
 gatcgggttc aatccganga ngtgggcctc nacgccgnnc gctgcnagggt gctggtgaac 240
 ntcgagcagc agtcc 255

<210> 222
 <211> 222
 <212> DNA
 <213> Zea mays

 <400> 222
 ccaccagca cgacgagaca gtgaccaatg atgagatcgc tgctgacctg aaggagcatg 60
 tcatcaagcc tgtcatccct gagcagtacc ttgacgagaa gaccatcttc caccttaacc 120
 catctggccg ctttgtcatt ggtggacctc acggcgatgc tggcctcact ggccgcaaga 180
 tcatcattga cacctacggt ggctggggag cccatgggtg tg 222

<210> 223
 <211> 269
 <212> DNA
 <213> Zea mays

 <400> 223
 ctccctcttg ccggtcccca ataaagagca gcagcgcaag aggtcggtag agcgagaaga 60
 aggcaatggc ggccgagagc ttccttttca cctcggagtc cgtgaacgag gggcaccaccg 120
 acaagctgtg cgaccagggt tcggacgccg tgcttgacgc atgcctcgcg caggaccaccg 180
 acagcaaggt ggctgcgag acctgcacca agaccaacat ggtgatgggtg ttcggcgaga 240
 tcacgaccaa ggcgaccgtg gactacgag 269

<210> 224
 <211> 311
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 224
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 ggttgggaga gcgagcgaga agaaggcaat ggcgggcgag agcttcctgt tcacctctga 120
 gtccgtgaac gangggcanc cagacaagct gtgcgaccag gtgtcggacg ctgtgctgga 180
 ctctgcctg gcgcaggacc ccgacagcaa agtggcctgc gagacctgca ccaagacgaa 240
 catgggtgatg gtgttcggcg agatcancan caangcgagc gtggactacg agaagatngt 300
 gcgcgacacc t 311

<210> 225
 <211> 293
 <212> DNA
 <213> Zea mays

<400> 225

gtgttcgtca actcgtacgg caccggcacg atccccgaca aggagatcct caagatcgtg 60
 aaggagaact tcgacttcag gcccgggatg atcagcatca acctcgacct gaagaagggc 120
 ggcaacaggt tcatcaagac cgccgcctac ggccacttcg gccgtgacga cgccgacttc 180
 acctgggagg tggatgaagcc cctcaagttc gacaaggcat cggcttaagg ttgggagtgt 240
 cactgtggac atgaggacta ccttcctctg gctctgctgt tacctgcaag cat 293

<210> 226
 <211> 225
 <212> DNA
 <213> Zea mays

<400> 226

gccggagccc ctgtccgtgt tcgtcaactc gtacggcacc ggcaacgatcc ccgacaagga 60
 gatcctcaag atcgtgaagg agaacttcga cttcaggccc gggatgatca gcatcaacct 120
 cgacctgaag aagggcgggca acaggttcat caagaccgcc gcctacggcc acttcggccg 180
 tgacgacgcc gacttcacct gggaggtggt gaagcccctc aagtt 225

<210> 227
 <211> 256
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 227

cacctcaacc cgtctggccg cttcgtcatc ggccggacctc acggcgacgc tggcctcact 60
 ggccggaaga tcatcatcga cacctacggt ggctggggag cccacggcgg gggcgacctc 120
 tccggcaagg acccgaccaa ggtggaccgc agcggggcct acgtcgcgag gcaggctgcc 180
 aagagcatcg tcgccgccg cctcgcccgc ngtgccatcg tcaagtnttc naaggcatcg 240
 ggttgcccga anccct 256

<210> 228
 <211> 281
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 228

tcatcattga cacctacngt ggctggggag cccatggtgg tggcgctttc tccggcaaga 60
 naccaacca aggttgaccg cagcggagcc tatgtcgcaa ggcaggctgc caagagcatc 120
 gtcgccagcg gccttgctcg ccgcgccatc gtccagggtgt cttacgccat cggntgcccg 180
 agcctctctc cgtgttcgtc gacacgtacg gcaccggcgc gatccccgac aaggagatct 240
 caagattgtc aaggagaatt cgatttcagg ctggcatgat c 281

<210> 229
 <211> 290
 <212> DNA
 <213> Zea mays

<400> 229

ctccgcctcg accggatctc gtcggactcg gatccgcccg accaccccgc gccgccgcag 60
 atccagagaa gatggcagct gtcgacacat tcctcttcac ctcggagtct gtgaacgagg 120
 gacaccctga caagctctgt gaccaggctc cagatccgtt cttgacgctt gccttgctga 180
 ggaccctgac agcaagggtg cttgtgagac ctgcaccaag accaacaatgg tcatggtctt 240
 tggtgagatc accaccaagg ccaatgttga ctacgagaag attgtcaggg 290

<210> 230
 <211> 318
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 230

ctntctccct ctttgccggt cccgaataaa gagcagcagc gcaagaggtc ggtagagcga 60
 gaagaaggca atggcggcgc agagcttcct tttcacctcg gagtccgtga aacgaggggc 120
 accccgaaca agctgtgcga ccangtgtcg gacgccgtgc tttgacgcat gnctcncgca 180
 ngagnccgac agcaangtgg cctgcgagac ctgcaccaag ancaacaatgg tgatgggtgt 240
 cggcgagatc acgaccaagg cgaccgtgga ctacgagaag atcgtgcgcg acacctgccg 300

cgagatcggg ttcactcc

318

<210> 231
<211> 276
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 231

attgacacct acggtggctg gggagcccat ggtggtggcg ctttctccgg caaggaccca 60
accaagggtg accgcagcgg agcctatgtc gcaaggcagg ctgccaagag catcgtcgcc 120
agcggccttg ctgcgcgcgc catcgtcagg gtgtcttaag ccatcggnatg cccgagcctc 180
tctccgtgtt cgtcgacacg tacggcaccg ggcgcgatccc cgacaaggag atcctcaaga 240
tgtcaaggag aattcgattt cangctggca tgatca 276

<210> 232
<211> 244
<212> DNA
<213> Zea mays

<400> 232

ctcacggcga tgctggcctc actggccgca agatcatcat tgacacctac ggtggctggg 60
gagcccatgg tgggtggcgt ttctccggca aggacccaac caagggtgac cgcagcggag 120
cctatgtcgc aaggcagggt gccaagagca tcgtcgccag cggccttgct cgccgcgcca 180
tcgtccagggt gtcttaagcc atcgggtgcc cgagcctctc tccgtgttcg tcgacacgta 240
cggc 244

<210> 233
<211> 349
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 233

atcaccacca aggccaatg ttgactacga gaagattgtc agggagacct gccgaacat 60
tggtttgtgt caaaacgatg ttgggcttga cgccgaccac tgcaagggtc tcgtgaacat 120
tgagcagcag tcccctgata ttgctcaggg tgtgcatggc cacttcacca agcgccccga 180

ggagattgga gctggtgacc agggacacat gttcgggtat gcgaccgatg agaccctgag 240
 ttgatgccct caagccatgt cttgccacca gctagtgtc gtctcacgag gccgcaaaan 300
 ggactgnccn ggnaanctg atggagacca gtganatcga gtacncatt 349

<210> 234
 <211> 228
 <212> DNA
 <213> Zea mays

<400> 234

cgcgcatgct ggcctcactg gccgcaagat catcattgac acctacggtg gctggggagc 60
 ccatggtggt ggcgctttct ccggcaagga cccaaccaag gttgaccgca gcggagccta 120
 tgtcgcaagg caggctgcca agagcatcgt cgccagcggc cttgctcgcc gcgccatcgt 180
 ccaggtgtct tacgccatcg gcgtgcccga gcctctctcc gtgttcgt 228

<210> 235
 <211> 263
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 235

cctgacagca aggttgcttg cgagacctgc accaagacca acatgggtcat ggtctttggt 60
 gagatcacca ccaaggccaa tgtcgactac gagaagattg tcaggagagac atgccgcaac 120
 atncgtttcg tgtcgaacga tgtcgggctt gacgctgacc actgcaagggt gcttgtnaac 180
 attnagcagc agtcccctga tattgctcag ggtgtgcagg ccattcacna agccccccga 240
 ggagntngag tgtgaccagg gga 263

<210> 236
 <211> 219
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 236

gcgagaagaa ggcaatggcg gccgagagct tccttttcac ctcggagtcc gtgaacgagg 60
 ggcancccga caagctgtgc gaccaggtgt cggacgccgt gcttgacgca tgcctcgcgc 120

aggacccccga cagcaaggtg gcctgcgaga cctgcaccaa gaccaacatg gtgatggtgt 180
tcggcgagat cacgaccaag gcgaccgtgg actacgaga 219

<210> 237
<211> 301
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 237

cgttcgcctc ttctcctccc tcctgccggg tccttaataa agagcagcag cgcaagaggt 60
tggtagagcg agcgagaaga aggcaatggc ggcggagagc ttctgttca cctcggagtc 120
cgtgaacgag gggcaccacg acaagctgtg cgaccaggtg tcggacgcgg tgctggacgc 180
ctgcctggcg caggaccccc acagcaaggt ggctgcgag acctgcacca agacgaacat 240
ggtgatggtg ttcggcgaga tnaacaacaa aggcgagcgt ggactacgag aagatggtgc 300
g 301

<210> 238
<211> 439
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 238

gtcggatctg agacgagacg agttaccatc tcatcccaac tccggaacga acaagttacc 60
atctcatccc aactccgcct cgaccggatc tcgtcggact cggatccgcc cgaccacccc 120
gcgccgccgc agatcaaaga agatggcagc tgtcgacaca ttctcttca cctcggagtc 180
tgtgaacgag ggacaccctg acaagctctg tgaccaggtc tcagatgccg ttcttgacgc 240
ttgccttgct gaggaccctg acagcaaggt tgcttgtgag acctgcacca agaccaacat 300
gggcatggnc tttggtgaga tcaccaccaa ggccaatggt gactaccaag aagattgtca 360
gggagnacct gccgnaacat tnggtttggg gtcaaacgat gttggcttga cgccaaccac 420
tggaaggggc tcgtnaant 439

<210> 239
<211> 239

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 239

 aggtgacagt cgagtaccgc aatgaggggtg gtgccatggt ccccatccgt gtccacaccg 60
 tcctcatctc caccagcac gacgagacag tgaccaatga tgagatcgct gctgacctga 120
 aggagcatgt catcaagcct gtcatccctg agcagtacct tgacgagaag accatcttcc 180
 accttaaccc atctggccgc nttgtcattg gtggactcac ggcgatgtgg cctcactgg 239

 <210> 240
 <211> 224
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 240

 gtcagggaga catgccgcaa cattgggtttc gtgtcgaacg atgtcgggct tgacgctgac 60
 cactgcaagg tgcttgtgaa cattgagcag cagtcccctg atattgctca ggggtgtgcac 120
 ggccacttca ccaagcgccc cgaggagatt ggagctggtg accaggggca catgtttngg 180
 tatncnantt acnngacacc tgagctgatg ccctcagcc atgt 224

 <210> 241
 <211> 274
 <212> DNA
 <213> Zea mays

 <400> 241

 ctcggatccg cccgaccacg accaccccgc gccgccgccg cgcagagcag cagatcagag 60
 aagatggccg gactcgacac cttcctcttc acctcggagt ccgtgaacga gggacaccct 120
 gacaagctct gcgaccaggt ctcagatgct gttctggacg cttgccttgc tgaggaccct 180
 gacagcaagg ttgcttgca gacctgcacc aagaccaaca tggatcatggt ctttggtgag 240
 atcaccacca aggccaatgt cgatacgaga agat 274

 <210> 242
 <211> 232
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 242

ccctgacaag ctctncgacc aggnctcana tgctgttctg gacgcttgcc ttgctgagga 60
 ccctgacagc aaggttgctt gcnagacntg caccaagacc aacatggnc a nggtcttttg 120
 tgagatcacc accaaggcca angtcgacta cgaggagatt gtcagggaga catgccgcaa 180
 cattggntc gtgtcgaacg atgtcgggct tgacgctgac cactgcaagg tg 232

<210> 243
 <211> 267
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 243

cntctccctc ttgccggtcc cgantaaaga gcagcagcgc aagaggtcgg tagagcgaga 60
 agaaggcaat ggcggccgag agcntccttt tcacctcgga gtccgtgaac gaggggcacc 120
 ccgacaagct gtgcgaccag gtgtcggacg ccgtgcttga cgcatgcctc gcgcaggacc 180
 ccgacagcaa ggtggcctgc gagacctgca ccaagaccaa catggtgatg gtgttcggcg 240
 agatcacgac caaggcgacc gtggact 267

<210> 244
 <211> 309
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 244

cgctctntcn ccncccnccn gccgggtcct taataaagag cagcagcgca aggtgagccg 60
 ccagcttgcc ccaggttggt agagcgagcg agaagaaggc aatggcgggc gagagcttcc 120
 tgttcacatc ggagtcctgt aacgaggggc acccagacaa gctgtgcgac cagggtgcgg 180
 acgcggtgct ggacgcctgc ntggcgagg accccgacag caaggtggcc tgcgagaccn 240
 gcaccaagac gaacatggtg atggtgttcg gcgagatcac caccaaggcg agcgtggaca 300
 acgagaaga 309

<210> 245

<211> 347
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 245

 cgccctcgacc gggatctcgt cggactcgga tccgcccgc caccgccgc cgccgcagat 60
 caaagaagat ggcagctgtc gacacattcc tcttcacctc ggagtctgtg aacgagggac 120
 accctgacaa gctctgtgac caggtctcag atgccgttct tgacgcttgc cttgctgagg 180
 accctgacag caaggttgct tgtgagacct gnaccaagac caacatggtc atggtctttg 240
 gtgagatcac caccaaggcc attgtgacta cgagaagatt gtccagggag acttgccgca 300
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<210> 246
 <211> 261
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 246

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 tgangctgac cactgcaagg tgcttgtaa cattgnnnca gcagtcccct natattgctc 120
 agngtgtgca cggccacttc accaagcgcc ccgaggagat tggagctggt gaccaggggc 180
 acatgtttgg gtatgcnact gacgagacct ctgagctgat gcccctcagc catgtccttg 240
 ccaccaagct tggtgctcgt c 261

<210> 247
 <211> 211
 <212> DNA
 <213> Zea mays

 <400> 247

 gcgaccaggt gtcggacgcc gtgcttgacg catgcctcgc gcaggacccc gacagcaagg 60
 tggcctgcga gacctgcacc aagaccaaca tggatgatgtt gttcggcgag atcacgacca 120
 aggcgaccgt ggactacgag aagatcgtgc gcgacacctg ccgcgagatc gggttcacct 180
 ccgacgacgt gggctcgacg ccgaccgctg c 211

<210> 248
 <211> 301
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 248

```
gccatcggcg tgccggancc cctgtccgtg tncgtcgact ccnacggcac cgggaccatc 60
cccgacaagg aganncggnn ganngtcaag gagaacttcg acttcaggcc agggatgatc 120
accatcaacc tcgacctcaa gaaggcggcg aacagggttca tcaagaccgc cgcatacggc 180
cactttggcc gtgacgacgc cgacttcacc tgggaggnng tcaagcccct aaagaaggca 240
tccgcttaag aatgtattgg gaagttcact ggacatgagg ttcattcttcg tctggctctg 300
c 301
```

<210> 249
 <211> 320
 <212> DNA
 <213> Zea mays

<400> 249

```
caccggcgcg atccccgaca aggagatcct gaagatcgtg aaggagaact tcgacttcag 60
gcccggcatg atcatcatca acctcgacct caagaaaggc ggcaacgggc gctacctcaa 120
gacggcgggc tacgggcact ttgggagggg cgacccccgac ttcacctggg aggtggtgaa 180
gcccctcaag gcggagaagc cgtcttctgc atgaggcgcc tcctctgttt tggaagaagc 240
ttttggtctg gtctggtctg gtctggtgtg cctgcgctct atcatgcttt tttatggctc 300
ctacttgtga ttcttgatct 320
```

<210> 250
 <211> 282
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 250

```
acttcacgaa gcggccccgag gagatcggcg cgggcgacca ngncncacat gttcgggtac 60
gccaccgacg agacccccga gctgatgccg ctgagccacg tgctggccan caagctgggc 120
```

gcgcgctcac cgagncacgc aagaacggca ctgcgcgtgg ctnaggccnc gacggcaaga 180
cccaggtgac ggtggagtac gtgaacgatg gcggcgccat ggtgcccgtc cgcggtgcaca 240
cgtgctcatc tncacccagc acgacganna ctnaacaacg ac 282

<210> 251
<211> 239
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 251

cttccacctc aacccgtctg gccgcttcgt catcggcgga cctcacggcg acgctggcct 60
cactggccgg aagatcatan tccaggtctc ctacgccatc ggcgtgcccg aaacccctgt 120
cgggtgttcgt ggacacgtac ggcacccggcg cgatccccga caaggagatc ctgaagatcg 180
tgaaggagaa cttcgacttc aggcccgga tgatcatcat caacctcgac ctcaagaaa 239

<210> 252
<211> 511
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 252

gnnnnnnnga aaantctacc cngtcaggtg ccggtcanga gaattcacgg gncgacccag 60
cgtccaccac ggnggtggcg cttctccgg caaggacccc accaaggtgg accgcagcgc 120
gcctacgtgg ccaggcaggc cgccaagagc atcgtggcca gcggcctcgc ccgccgcgcc 180
tcgtgcaggt gtcgtacgcc atcggcgtgc cggagcccct gtccgtgttc gtcaaccgta 240
cggcaacggc acgattcccc acaagggaga ttctcaaaga tcgttaagga gaaactcgaa 300
cttnaanggc cgggaanatt aagcaatcaa acctncgaac ctngaaaaaa gggcggcaac 360
aaggttnaat caaaaancgc ccgcctaagg ncaattnggc ccgttaacca acgcganttc 420
aactgggaag tggtnaaacc cctcaaattc caciaagcat cggcttaaag gttggaattt 480
cactgtggac attaaggact aancttctc t 511

<210> 253
<211> 234
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 253

cnacgngtcn gaatgagcac gtcancaagc ccgtcatccc ggagaggtac ctggacgaga 60
agacnatctn ccnnnnnnnn ncgtcnnggc gcttcgtcat cggcggggccc cacgggggacg 120
ccggcctcac cggccgcaag atcatcatcg acacctacgg cggctgggga gcccacggcg 180
ggggcgccctt ctccggcaag gacccaccca angtggaccg cngcggggcc tact 234

<210> 254

<211> 295

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 254

ctcttctcct ccctcctgnc gggtccttaa taaagagcag cagcgcaagg tgagccgcca 60
gcttgcccca ggttggtaga gcgagcgaga agaaggcaat ggcgggcgag agcttcctgt 120
tcacgtcgga gtccgtgaac gaggggcacc cagacaagct gtgcgaccag gtgtcggacg 180
cgggtgctgga cgctgcctg gcgcaggacc ccgacagcaa ggtggcctgc gagacctgca 240
ccaagacgaa catggtgatg gtgttcggcg agatcaccac caaggcgagc gtgga 295

<210> 255

<211> 257

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 255

ccaanganga gancgngcn gacctgaagg agcatgtcan caagcctgtc anccctgagc 60
agnacctnga cgagaagacc ancttcacc tnaaccanc nggccgtnt gtcattggtg 120
gaccncacgg cgatgcnngc ctacnngcc gcaagancan catngacacc nacggtggcn 180
ggggagccca tgggtggtggc gcntncnccg gcaaggaccc aaccaaggtt gaccgcagcg 240
gacctatgtc gcaaggc 257

<210> 256

<211> 206

<212> DNA
 <213> Zea mays
 <400> 256
 ggcgagatca cgaccaaggc gaccgtggac tacgagaaga tcgtgcgcga cacctgccgc 60
 gagatcgggt tcacctccga cgacgtgggc ctcgacgccg accgctgcaa ggtgctgggt 120
 aacatcgagc agcagtcccc cgacatcgcg cagggcggtgc acgggcactt cacgaagcgg 180
 cccgaggaga tcggcgcggg cgacca 206

<210> 257
 <211> 208
 <212> DNA
 <213> Zea mays
 <400> 257
 agacaatctt ccacctcaac ccgtctggcc gcttcgtcat cggcggacct cacggcgacg 60
 ctggcctcac tggccggaag atcatcatcg acacctacgg tggtcgggga gcccacggcg 120
 ggggcgcctt ctccggcaag gacccgacca aggtggaccg cagcggggcc tacgtcgcga 180
 ggcaggctgc caagagcatc gtcgccgc 208

<210> 258
 <211> 339
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <400> 258
 aacgaggggtg gcgccatggt tcccatccgt gtgcacacag tcctcatctc taccagcac 60
 gacgagacag tcaccaacga cgagattgct gctgacctga aggagcacgt catcaagcca 120
 gtcatccccg agcagtacct cgacgagaag acaatcttcc acctcaaccc gtctggccgt 180
 tcgtcatcgg cggacctcac ggcgacgcgg cctcactggc ggaagatcat catcgacacc 240
 tacggtgnntt gggagccacg gcggggcgct ttncggcaag gaccgncaag tggacgancg 300
 gggctagtcn gagcagntgc aaganatgtc gcgcggctg 339

<210> 259
 <211> 195
 <212> DNA

<213> Zea mays

<400> 259

caggacccccg acagcaaggt ggcctgcgag acctgcacca agaccaacat ggtgatggtg 60
ttcggcgaga tcacgaccaa ggcgaccgtg gactacgaga agatcgtgcg cgacacctgc 120
cgcgagatcg ggttcacctc cgacgacgtg ggcctcgacg ccgaccgctg caaggtgctg 180
gtgaacatcg agcag 195

<210> 260

<211> 267

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 260

cgtttgcctc ttctccctct tgccgggtccc gaataaagag cagcagcgca agaggtcggt 60
agagcgagaa gaaggcaatg gcggccgaga gcttcctttt cacctcgag tccgtgaacg 120
aggggcaccc cgacaagctg tgcgaccagg tgtcggacgc cgtgcttgac gcatgcctcg 180
cgcaggaccc cgacagcaag gtggcctgcg agacctgcac caagaccaac atggtgatgg 240
tgttcggcga natcacgacc aaggcga 267

<210> 261

<211> 272

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 261

atccgtttgc ctcttctccc tcttgccggt cccgaataaa gagcagcagc gcaagaggtc 60
ggtagagcga gaagaaggca atggcggccg agagcttcct tttcacctcg gagtccgtga 120
acgaggggca ccccgacaag ctgtgcgacc aggtgtcgga cgccgtgctt gacgcatgcc 180
tcgcgagga ccccgacagc aaggtggcct gcgagacctg caccaagacc aacatggtga 240
tngtgttcg cgagatcacg accaangcga cc 272

<210> 262

<211> 335

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 262

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gcggactaat gtcgcaaggc aggctgccaa gagcatcgtc gccagcggcc ttgctcgccg 60
cgccatcgtc caggtgtctt acgccatcgg gtgcccgagc ctctctccgt gttcgtcgac 120
acgtacggca ccggcgcgat ccccgacaag gagatcctca agattgtcaa ggagaactcg 180
atttcaggcc tggcatgata atcatcaacc ttgacctcaa gaaaggcggc aacgggcgct 240
actcaagagn gcggctacgg ccactttgga agggacgacc tgattcacct gggaggtggt 300
gaagccattc aatcggagaa actttgctaa gcggc 335
```

<210> 263

<211> 270

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 263

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cacacatccg ttgctctctt ctccctcttg ccggtcccga ataaagagca gcagcgcaag 60
aggtcggtag agcgagaaga aggcaatggc ggccgagagc ttctttttca cctcggagtc 120
cgtgaacgag gggcaccccg acaagctgtg cgaccagggtg tcggacgccg tgcttgacgc 180
atgcntcgcg caggaccccg acagcaaggt ggcctgcgag acctgcacca agaccaacat 240
ggtgatggtg ttcggcgaga tcacgaccaa 270
```

<210> 264

<211> 246

<212> DNA

<213> Zea mays

<400> 264

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gatctcgctg gactcggatc cgcccgaaca ccccgcgccg ccgcagatca aagaagatgg 60
cagctgtcga cacattcctc ttacactcgg agtctgtgaa cgagggacac cctgacaagc 120
tctgtgacca ggtctcagat gccgttcttg acgcttgctt tgctgaggac cctgacagca 180
aggttgcttg tgagacctgc acaaagacaa acatggatcat ggtctttggt gagatcacca 240
ccaagg 246
```

<210> 265
 <211> 263
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 265

ctcttctccc tcttgccgnt cccgaataaa gagcagcagc gcaagaggtc ggtagagcga 60
 gaagaaggca atggcggccg agagcttcct ttacacntcg gagtccgtga aanangggca 120
 cnccgacaag ctgtgcgacc aggtgtcgga cgccgtgctt gacgcatgcc tcgcgagga 180
 ccccgacagc aaggtggcct gcgagacctg caccaagacc aacatggtga tgggtgttcgg 240
 cgagatcacg accaaggcga ccg 263

<210> 266
 <211> 295
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 266

cgctcgacc ggatctcgtc ggactcggat ccgcccagacc accccgcgcc gccgcagatc 60
 aaagaagatg gcagctgtcg acacattcnc tcttcacctn nggagtctgt gaacgagggga 120
 caccctgaca agctctgtga ccaggtctca gatgccgttc ttgacgcttg ccttgctgag 180
 gaccctgaca gcaagggttg ttgtgagacc tgcaccaaga ccaacatggt catggtcttt 240
 ggtgagatca ccaccaaggc caatgttgac tacgagaaga ttgtcagggg gacct 295

<210> 267
 <211> 288
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 267

gccgcaacat tggtttcgtg tcgaacgatg tcgggcttga cgctgaccac tgcaagggtgc 60
 ttgtgaacat tgagcagcag tcccctgata ttgctcaggg tgtgcacggc cacttcacca 120
 agcgccccga ggagattgga gtggtgacca ggggcacatg tttgggtatg cgactgacga 180
 gaccctgag ctgatgcccc tcagccatgt cttgccacca acttggtgct cgtctcacgg 240

agttcgccaa gaatggaact gccctggcna agcccgatgg aagaccag

288

<210> 268

<211> 254

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 268

gtcatcggcg gnnctcacgg ccgacgctgg cctcactggc cggaagatca tcatcganac 60

ctcncggtgg ctggggagcc cacggcgggg gcgccttctc cggcaaggnc ccgaccaagg 120

tggaccgcag cggggcctac gtcgcgaggc aggctgccaa naggatcgtc gccgccggcc 180

taaccgcgcg cgnctttgtc caggtctnct acgccatcgg ntnaccgcag cccctttcgg 240

tggtcgtgga cacg 254

<210> 269

<211> 525

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 269

ggngnaggg ttttgtanng ntnnnnggga tnganngttt accggttcgg aattcccggg 60

tcgacccacg cgtccgcca cgcgtccgcc cacgcgtccg cccacgcgtc cgcaccacgcg 120

tccggtcgga tctgggacga gacgagacga tcccngcctc ccctcaaccg gaacttggtt 180

taccccatct catccactg actccacca cccacccgcc cgctgcctcc gccggatctc 240

gtcggactcg gatccgccc accacgacca ccccgcttg ncgccgcgca gcagcagcag 300

atcagagaag atggccggac tcgacacctt cctcttcacc tcggagtccg tgaacgaggg 360

acaccctgac aagctctgcg accaggtctc agatgctgtt ctggacgctt gccttgctga 420

ggaccctgac agcanggttg cttgagagac ctgcaccaag accaacaatgg tcatggcttt 480

ggtgagatca ccaccaagn caatgntgac tttttnaana ntttg 525

<210> 270

<211> 312

<212> DNA

<213> Zea mays

<400> 270

ctgaagatcg tgaaggagaa cttcgacttc aggcccggca tgatcatcat caacctcgac 60
ctcaagaaag gcggaacgg gcgctacctc aagacggcgg cctacgggca ctttgggagg 120
gacgaccccg acttcacctg ggaggtggtg aagcccctca aggcgagaa gccgtcttct 180
gcatgaggcg cctcctctgt tttggaagaa gcttttggtc tggctctggtc tggctctggtg 240
tgctgcgct ctatcatgct ttttatggc tcctacttgt gattcttgat ctgcccttg 300
cttatcattg ta 312

<210> 271

<211> 227

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 271

gngagnccac ggcnggggcy ctttctccgg caaggacccg accaagggtg accgcagcgn 60
ggccnacntc gcgaggcagn ctgccaanag catcgctgcc gccggcctcn cncgccgcgc 120
cattgtccag gtctcctacg ccacggcgt gcccgagccc ctttcggtgt tcgtggacac 180
gtacggcacc ggcgcgatcc ccgacaagga gatcctgaag ancgtgg 227

<210> 272

<211> 234

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 272

gcagcgcaag angttggtag agcgagcgag nngaaggcaa tggcggcgga gagcttcctg 60
ttcacctcgg ngtcctgaa cgaggggcac ccagacaagc tgtgcgacca ggtgtcggn 120
gcggtgctgg acgcctgcct ggcgcaggac cccgacagca aggtggcctg cgagacctgc 180
accaagacga acntngtgat ggtgttcggc gagatcncca ccaaggcgag cgtg 234

<210> 273

<211> 239

<212> DNA

<213> Zea mays

<400> 273

cgatgagacc cctgagttga tgcccctcag ccatgtcctt gcagtggtcg gcgtcaagcc 60
caacatcggtt tgacacaaaa ccaatggtgc ggcaggtctc cctgacaatc ttctcgtagt 120
caacattggc cttggtggtg atctcaccaa agaccatgac catgttggtc ttggtgcagg 180
tctcacaagc aaccttgctg tcagggtcct cagcaaggca agcgtcaaga acggcatct 239

<210> 274

<211> 245

<212> DNA

<213> Zea mays

<400> 274

ccctcttgcc ggtcccgaat aaagagcagc agcgcaagag gtcggtagag cgagaagaag 60
gcaatggcgg ccgagagctt ccttttcacc tcggagtcgg tgaacgaggg gcaccccgac 120
aagctgtgcg accagggtgc ggacgccgtg cttgacgcat gcctcgcgca ggaccccgac 180
agcaagggtg cctgcgagac ctgcaccaag accaacaatgg tgatggtggt cggcgagatc 240
acgac 245

<210> 275

<211> 268

<212> DNA

<213> Zea mays

<400> 275

cgtttgccctc ttctccctct tgccggtccc gaataaagag cagcagcgca agaggtcggt 60
agagcgagaa gaaggcaatg gcggccgaga gtttcctttt cacctcggag tccgtgaacg 120
aggggcaccc cgacaagctg tgcgaccagg tgtcggacgc cgtgcttgac gcatgcctcg 180
cgcaggaccc cgacagcaag gtggcctgcg agacctgcac caagaccaac catggtgatg 240
gtgttcggcg agatcacgac caaggcga 268

<210> 276

<211> 228

<212> DNA

<213> Zea mays

<400> 276

ctcacggcga tgctggcctc actggccgca agatcatcat tgacacctac ggtggctggg 60
gagcccatgg tgggtggcgct ttctccggca aggaccaac caagggtgac cgcagcggag 120
cctatgtcgc aaggcaggct gccaaagca tcgtcgccag cggccttgct cgccgcgcca 180
tcgtccaggt gtcttacgcc atcgggtgcc cgagcctctc tccgtgtt 228

<210> 277
<211> 253
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 277

gatcgctgct gacctgaagg agcatgtcat caagcctgtc atccctgagc agtaccttga 60
cgagaagacc atcttccacc ttaaccocatc tggccgcttt gtcattggtg gacctcacgg 120
cgatgctggc ctcaactggcc gcaagatcat cattgacacc nacggtggct ggggatcccn 180
nnggggtggc cttttctcgg aagagggcna aacnaagggtg gncgtagtgg tntttntga 240
aanggtagnn tgc 253

<210> 278
<211> 268
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 278

ccgttcgcct cttctcctcc ctctgcccgg gtccttaata aagagcagca gcgcaagagg 60
ttggtagagc gagcgagaag aaggcaatgg cggcggagag cntcctgttc acctcggagt 120
ccgtgaacga ggggcaccca gacaagctgt gcgaccaggt gtcggacgcg gtgctggacg 180
cctgcctggc gcaggacccc gacagcaagg tggcctgcga gacctgcacc aagacgaaca 240
tgggtgatggt gttcggcgag atcaccac 268

<210> 279
<211> 218
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<400> 279

cccgaccaag gtggaccgca gcggggccta cgtcgcgagg caggctgcca agagcatcgt 60

cgccgccggc ctgcgccgcc gcgccatcgt ccaggtctcc tacgccatcg ggtgcccgag 120

cccctatcgg tgttcgtgga cacgtacggc ancggcgcga tccccgacaa ggagatcctg 180

aagatcgtga aggagaactt cgacttcaag cccggcat 218

<210> 280

<211> 314

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 280

gccggtcccc aataaagagc agcagcgcaa gaggtcggta gagcgagaag aaggcaatgg 60

cggccgagag cttccttttc accttcggag tccgtgaacg aggggcaccc cgacaagctg 120

tgcgaccagg tgtcggacgc cgtgcttgac gcatgcctcg cgcaggaccc cgacagcaag 180

gtggctgcga gactgcacaa gaccaacatg gtgatggtgt tcggcgagat cacgaacaan 240

gcgacgtgga ctacgagaag atcgtgcgcg acacctgccc gcgagatcgg gttcacctcc 300

gacgacgtgg gctc 314

<210> 281

<211> 216

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 281

ctccggcaag gacccgacca aggtggaccg cagcggggcc tacgtcgcga ggcaggctgc 60

caagagcatc gtcgccgccg gctcgcgccg ccgcgccatt gtccaggtct cctacgccat 120

cgggtgcccc ancccccttc ggtgttcgtg gacacgtacg gcaccggcgc gatccccgac 180

aaggagatcc tgaagatcgt gaaggagaac ttcgac 216

<210> 282

<211> 289

<212> DNA

<213> Zea mays

<223> unsure at all n locations
 <400> 282

ggccgctttg tcattggtgg acctcacggc gatgctggcc tcaactggcng caagatcatc 60
 attgacacct acggtggctg gggagcccat ggtggtggcg ctttctccgg caaggaccca 120
 accaaggttg accgcagcgg acctatgtcg caaggcaggc tgccaagagc atcgtcgcca 180
 gcggccttgc tcgccgcgcc atcgtccagn tgtcttacgc canngggtgc nngancctct 240
 ctccgtgttc gaaaanannn anngcnnggn nntcccccaa nggttttnt 289

<210> 283
 <211> 247
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 283

ctccctcttg ccggtcccga ataaagagca gcancgcaag aggtcggtag agcgagaaga 60
 aggcaatggc ggccgagagc ttcccttttca cctcggagtc cgtgaacgag gggcaccccg 120
 acaagctgtg cgaccagggtg tcggacgcgc tgcttnangc atgcctcgcg caggaccccg 180
 acagcaaggt ggctgcgag acctgcacca agaccaacat ggtgatggtg ttcggcgaga 240
 tcacgac 247

<210> 284
 <211> 275
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 284

cgtttgcttc ttctccctct tgccggtccc gaataaagag cagcagcgca agaggtcggt 60
 agagcgagaa gaaggcaatg gcggccgaga gtttcctttt cacctcggag tccgtgaacg 120
 aggggcaccc cgacaagctg tgcgaccagg tgtcggacgc cgtgcttgac gcatgcctcg 180
 cgcaggaccc cgacagcaaa gttgctgcga aanctgcacc aagancaaca tggatgatggt 240
 gttcggcgag atcacgacca aggggaccgt ggatt 275

<210> 285
 <211> 255

<212> DNA

<213> Zea mays

<400> 285

cctcttctcc tccctcctgc cgggtcctta ataaagagca gcagcgcaag aggttggttag 60
agcgagcgag aagaaggcaa tggcggcgga gagcttcctg ttcacctcg agtccgtgaa 120
cgaggggcac ccagacaagc tgtgcgacca ggtgtcggac gcggtgctgg acgcctgcct 180
ggcgcaggac cccgacagca aggtggcctg cgagacctgc accaagacga acatggtgat 240
ggtgttcggc gagat 255

<210> 286

<211> 221

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 286

gggagcccac ggcgggggcn ccttcnccgg caaggacccg accaagggtgg accgcagcgg 60
ggcctacgtc ncnaggcagg cngccaagag catcgtncc nccggcctcg ccnccgcnc 120
cattgtccag gtctcctacg ccatcgntg cccnagcccc tttcggtgtt cgtggacacn 180
tacggcaccg gcgcgatccc cnacaaggag atcctgaaga t 221

<210> 287

<211> 216

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 287

ctctaccag cagcagcaga cagtcaccaa cgacgagatt gctgctgacc tgaaggagca 60
cgatcatcaag ccagtcattc ccgagcagta cctcgacgag aagacaatct tcacacctcaa 120
cccgtctggc cgcttcgtca tcnccggacc tcacggcgac gctggcnctnn ctgnnncggn 180
agatcatcat cgacacctan ggttgctggg gagcca 216

<210> 288

<211> 292

<212> DNA

<213> Zea mays

<223> unsure at all n locations
 <400> 288

```

cgtagctgtc gacacgtacg gcaccggcgc gatccccgac aagganatcc ttcaagattg   60
tcaaggagaa cttcgatttc aagcctggca tgatcatcat caaccttgac ctcaagaaag  120
gcggaacgga ggcgtacctc aagacggcgg cctacggcca ctttggaagg gacgacctg   180
acttcacctg ggaggtggtg aagccacttc aagtcggaga aaccttctgc ctaaggcggc   240
ctttttttca gtaagaagct tttggtggtc tgctgtgctt aatcagcttt ta           292

```

<210> 289
 <211> 276
 <212> DNA
 <213> Zea mays

<400> 289

```

gagaacttcg acttcaggcc cggcatgata atcatcaacc tcgacctcaa gaaaggcggc   60
aacgggcgct acctcaagac ggcggcctac gggcactttg ggagggacga ccccgacttc  120
acctgggagg tgggtgaagcc cctcaaggcg gagaagccgt cttctgcatg aggcgcctcc  180
tctgtttcgg aagaagcttt tggctctggc tgctgcgct ctatcatgct tttttatggc  240
tcctacgtgt tgtgattctt gatctgcccc ttgctt                               276

```

<210> 290
 <211> 219
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 290

```

cgccatcgga gtgccggagc ccctgtccgt gttcgtcaac tcgtacggca ccggcacgat   60
ccccgacaag gagatcctca agatcgtgaa ggagaacttc gacttcangc ccgggatgat  120
cagcatcaac ctgcacctga agaagggcgg caacaggctc atcaagaccg ccgcctacgg  180
ccattcggcc gtgacgacgc cgacttcact gggagtggg                               219

```

<210> 291
 <211> 191
 <212> DNA
 <213> Zea mays

<400> 291

catgccgcaa cattggtttc gtgtcgaacg atgtcgggct tgacgctgac cactgcaagg 60
tgcttgtgaa cattgagcag cagtcccctg atattgctca ggggtgtgcac ggccacttca 120
ccaagcgccc cgaggagatt ggagctggtg accaggggca catgtttggg tatgcgactg 180
acgagacccc t 191

<210> 292

<211> 315

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 292

gacgagacga gttaccatct catcccaact ccggaacgaa caagttacca tctcatcca 60
actccgcctc gaccggnncn cgtcggactc gganccgccc gaccaccccg cgccgcccga 120
gatcaaagaa gatggcagcn gtcgacacat tcctcttcac ctccgagctt gtgaacgagg 180
gacaccctga caagcncgtg gaccaggtct cagatgccgt tcttgacgt tgccttgng 240
aggaccctga cagcaagggt gcttgtgaga cctgcaccaa gaccaacatg gtcattggtct 300
ttggtgagan nacca 315

<210> 293

<211> 501

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 293

agagcatcgn ggccagcggc ctgcccgc gctgcctngt gcaaggtgtc ctancccant 60
ngngngtgcg gaaccctgt caatgntcgg cgantttctac ggcaccggga ccatnccga 120
caaggagatc ctcaagatcg tcaaggagaa cttcgacttc agggcccggg atnatcacca 180
tcaacctcga cctcaanaaa gggcgggaac aggttcatca agaccgccgc atacngncac 240
tttgccccgt gacganenca ctttacctgg gaagtgttca atcccctaaa gaaagccatn 300
ccncttaaga atgtanttgg naagtttact tggacatgaa gttcattctt ngctctngctt 360
ctgctgatnc cctnnaanga ttgcttgnn cttgcttgcc cctngattgt ntgttttgan 420

caantgantt ngcttgntct tgttccatnt gaaaaaccnn attaatngtg gncnttttg 480
 tgaaaaaaag nttingccna t 501

<210> 294
 <211> 281
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 294

gcctcttctc ctccctcctg ccgggtcctt aataaagagc agcagcgcaa gaggttggtg 60
 gagcgagcga gaagaaggca atggcggcgg agagcttcct gttcacctcg gagtccgtga 120
 acgaggggca cccagacaag ctgtgcgacc aggtgtcgga cgcggtgctg gacgcctgcc 180
 tggcgagaa ccccgacagc aagtggcctg cgagacctgc accaagacga acatggtgat 240
 ggtgttcggc gaantcacca ccagggnagn tggatacgaa t 281

<210> 295
 <211> 486
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 295

gggnantnt tnnagncctt cnacgcgnnc agtaccggtc acagaattcc cgggncgacc 60
 acgcgtccnc ggacgcgtgg gcgacaagga gatcctcang atcgtgaagg agannttcac 120
 ttcaggcccg ggatgatcag catcaacctc gacctgaaga agggcggcaa caggttctca 180
 agaccgccgc ctacggccac ttcggccgtg acnacgccga cttcacctgg gaggtgtgaa 240
 gcccctcaag ttcgacaagg catcggctta aggttgggan tgtcactgtg gacataggac 300
 taccttctc tggctctgct gttacctgca agcattgctg ctgctggatg tgtggtttga 360
 tcagtgactg gctgctgctc catagaagat gaacggagag aaggatgatg aangctttgg 420
 caatcgcccg ctgcaactgc aaccatgcc atgccggctt aatgattggg taaattttgg 480
 cttnc 486

<210> 296
 <211> 173

<212> DNA
 <213> Zea mays

 <400> 296

 tacgtcgcca ggcaggccgc caagagcatc gtggccagcg gcctcgcccg ccgtgcctc 60
 gtgcaggtgt cctacgccat cggcgtgccg gagcccctgt ccgtgttcgt cgactcctac 120
 ggcaccggga ccatccccga caaggagatc ctaaagatcg tcaaggagaa ctt 173

<210> 297
 <211> 278
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 297

 cgcctcttct cctccctcct gccgggtcct taataaagag cagcagcgca agaggttggt 60
 agagcgagcg agaagaaggc aatggcggcg gagagcttcc tgttcacctc ggagtccgtg 120
 aacgaggggc acccagacaa gctgtgcgac caggtgtcgg acgcggtgct ggacgcctgc 180
 ntggcgcagg accccgacag caaggtggcc tgcnatncct ncacnangac gaacatgggtg 240
 atggtgttcg gcgaaatcac cncnantgcy acntngac 278

<210> 298
 <211> 309
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 298

 ggcgtgccgg agcccctgtc cgtgttcgtc gactcctacg gcaccgggac catccccgac 60
 aaggagatcc taaagatcgt caaggagaac ttcgacttca ggccagggat gatcaccatc 120
 aacctcgacc tcaagaaggc cggcaacagg ttcacatga cgcgcgcata cggccacttt 180
 ggcntgacga cgccgacttc acctgggagg tggatcaagg cctaaagaag gcatccgctt 240
 aagaatgtat tgggaagttc actggacatg aggttcatct tcgtctggct ctgctgatac 300
 ctgcaagat 309

<210> 299
 <211> 197

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 299

 gggagaccng ccgcaacatt ggttttgtgt caaacgatgt tgggcttgac gccgaccacn 60
 gcaaggtgct cgtgaacatt gagcagcagt cccctgatat tgctcagggg gtgcatggcc 120
 acttcaccaa gcgccccgag gagattggag ctggtgacca gggacacatg ttcgggtatg 180
 cgaccgatga gaccctt 197

<210> 300
 <211> 253
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 300

 cgtttgcctc ttctccctct tgccggtccc gaataaagag cagcagcgca agaggtcggt 60
 agagcgagaa gaaggcaatg gcggccgaga gcttcctttt cacctcggag tccgtgaacg 120
 aggggcaccc cgacaagctg tgcgaccagg tgtcggacgc cgtgcttgac gcatgcctcg 180
 cgcaggaccc cgacagcaag gtggctgcga gacctgcacc nagaccaaca tggatgatngt 240
 gttcggcgag atc 253

<210> 301
 <211> 302
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 301

 cgtgaaacga ggggacaccc tgacaagctc tgcgaccagg tctcagatgc tgttctggac 60
 gcttgcccttg ctgaggaccc tgacagcaag ttgcttggag acctgcacca agaccaacat 120
 ggtcatggtc tttggtgaga tcaccaccaa ggccaatgtc gactacgaga agattgtcag 180
 gggagacatg ccgcaaaatt ggtttcngnt naganngatg tggggcttga ngntgaccac 240
 ngcanggtgn tnatanaaan ttngnagnan tncctgtat ttgcgcnggg gggnnncncc 300
 nc 302

<210> 302
 <211> 460
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 302

cgccgccggc ctcgcccgcc gcgccatcgt ccaggtctcc tacgccatcg gcgtgcccga 60
 gccctatcg gtgttcgtgg acacgtacng ganngngngn anncccgaen agggnaatcn 120
 tganaatngn anaagganaa nttnanantn caggcccggt tgatcattat naacctagac 180
 ctcaanaaag gcggaaacgg gcnctaccta aagacggggg tctacgggcn ctttgngagg 240
 gacgaccgag anttcacctg agaggtggna aagcccctca aggcggaaaa gccgtcttct 300
 gcatgaggcg cctcctctgt ttengaagaa gcttttggtc tggctctgct gcgctctatc 360
 atgctttttt atggctncta cgtgttgtga ttcttgatct gcccttgct tatcatttgt 420
 actgtactgt cactgtccta ataagtggta cgtgtgcggg 460

<210> 303
 <211> 297
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 303

gtctatgtng caangnacgc tgcnaagagc atngtcnccc agcggccttg ctcgncgcgc 60
 natngnceca ggtgtattat cgccatccgg cnngncngng cntctcnccg tgttcgtcga 120
 cacgtacggc accggcgcgga tccccgacaa ggngnnncnt gaagattgta caaggagaac 180
 ttcgatttca ggcttgcat gatcatnnnc aaccttganc tcaagaaagg nggcaacggg 240
 cgctacctca agacggcggc ctacggcnac tttggaaggg acgaccctga cttcacc 297

<210> 304
 <211> 259
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 304

cggatctgag acgagacgag ttaccatctc atcccaactc cggaacgaac aagttaccat 60

ctcatcncaa ctccgtctca ccgaggtccg caagaacgga acctgcccct ggctcaggcc 120
 tgatgggaag acccaggtga cagtcgagta ccgcaatgag ggtggtgcca tggcccccat 180
 ccgtgtccac accgtcctca tctccacca gcacgacgag acagtgacca atgatgagat 240
 cgctgctgac ctgaaggag 259

<210> 305
 <211> 244
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 305

cttctcctcc ctctgccgg gtccttaata aagagcagca gcgcaagagg ttggtagagc 60
 gagcgagaag aaggcaatgg cggcggagag cttcctgttc acctcggagt ccgtgaacga 120
 ggggcaccca gacaagctgt gcgaccaggt gtcggacgcg gtgctggacg cctgcctggc 180
 gcaggacccc gacagcaagg tggcctgcga nacctgcacc aagacgaaca tggatgatgg 240
 gttc 244

<210> 306
 <211> 236
 <212> DNA
 <213> Zea mays

<400> 306

cgtcggactc ggatccgccc gaccacgacc accccgcgcc gccgccgccc acagcagcag 60
 atcagagaag atggccggac tcgacacctt cctcttcacc tcggagtccg tgaacgaggg 120
 acaccctgac aagctctgcg accaggtctc agatgctgtt ctggacgctt gccttgctga 180
 ggaccctgac agcaaggttg cttgcgagac ctgcaccaag accaacaatgg tcatgg 236

<210> 307
 <211> 310
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 307

cccagcacga cgagacagtc accaacgacg agattnctgg gtagagatga ggactgtgtg 60

cacacggatg ggaaccatgg cgccaccctc atctctaccc agcacnacga gacagtcacc 120
aacgacgaga ttgctgctga cctgaaggag cacgtcatca agccagtcac ccccgagcag 180
tacctcgacg agaagacaat cttacacctc aaccggtctg gccgcttcgt catcggcgga 240
cctcacggcg aggtgggcnt nactggccgg angatntcat cganannagg tgtttgggga 300
nccacggggg 310

<210> 308
<211> 185
<212> DNA
<213> Zea mays

<400> 308

cctgacagca aggttgcttg cgagacctgc accaagacca acatgggtcat ggtctttggt 60
gagatcacca ccaaggccaa tgtcgactac gagaagattg tcaggagagac atgccgcaac 120
attggtttcg tgtcgaacga tgtcgggctt gacgctgacc actgcaagtg cttgtgaaca 180
ttgag 185

<210> 309
<211> 272
<212> DNA
<213> Zea mays

<400> 309

ccgtttgcct cttctccctc ttgccgggtcc cgaataaaga gcagcagcgc aagagggtcgg 60
tagagcgaga agaaggcaat ggcggccgag agcttccttt tcacctcggg agtccgtgaa 120
cgagggggcac cccgacaagc tgtgcgacca ggtgtcggac gccgtgcttg acgcatgcct 180
cgcgaggagc cccgacagca aggtggcctg cgagacctgc accaagacca acatgggtgat 240
ggtgttcggc gagatcacga ccaaggcgac cg 272

<210> 310
<211> 231
<212> DNA
<213> Zea mays

<400> 310

ctctttctccc tcttgccggt cccgaataaa gagcagcagc gcaagaggtc ggtagagcga 60

gaagaaggca atggcggccg agagcttcct tttcacctcg gagtccgtga acgaggggca 120
 ccccgacaag ctgtgcgacc aggtgtcgga cgccgtgctt gacgcatgcc tcgcgagga 180
 ccccgacagc aaggtggcct gcgagacctg caccaagacc aacatggtga t 231

<210> 311
 <211> 307
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 311

gtcggatctg agacgagacg agtccccctcg cntcacccaa ccggaacgaa caagttacca 60
 tctcatccca accccgcctg cgaccggntg tcgtcggaact cggntccgcn cgaccacccc 120
 gcgccgccgc agatcaaaga agatggcagc tctcgacacc ttctctttca cctcggagtc 180
 tgtgaacgag ggacaccctg acaagctctg cgaccaggtc tcagatgccg ttcttgacgc 240
 ttgcnttgct gaggaccctg acagcaaggt tgcttgtag acctgcacca agaccaacat 300
 ggtcatg 307

<210> 312
 <211> 260
 <212> DNA
 <213> Zea mays

<400> 312

catccatccc cgttcgctc ttctctctcc tctgcccgg tccttaataa agagcagcag 60
 cgcaagaggt tggtagagcg agcgagaaga aggcaatggc ggcggagagc ttctgttca 120
 cctcggagtc cgtgaacgag gggcacccag acaagctgtg cgaccagggtg tcggacgcgg 180
 tgctggacgc ctgcctggcg caggaccccg acagcaaggt ggcctgcgag acctgcacca 240
 agacgaacat ggtgatggtg 260

<210> 313
 <211> 305
 <212> DNA
 <213> Zea mays

<400> 313

tgagacgaga cgagttacca tctcatccca actccggaac gaacaagtta ccattctcatc 60
 ccaactccgc ctcgaccgga tctcgtcggga ctcggatccg cccgaccacc ccgcgccgcc 120
 gcagatcaaa gaagatggca gctgtcgaca cattcctctt cacctcggag tctgtgaacg 180
 agggacaccc tgacaagctc tgtgaccagg tctcagatgc cgttcttgac gcttgccctg 240
 ctgaggaccc tgacagcaag gttgcttggt agacctgcac caagacaaca tggatcatggt 300
 ctttg 305

<210> 314
 <211> 237
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 314

gaagattntc atggatacct gccgcancat tngntttgtg atcanacgat gctgggnttg 60
 acgccnacca ctgnaagggtg cncgtgaana ttgatcanca gtncctgat attgctcang 120
 gtntncatgg ccacttcacc aagcgccccg aggagattgg agctggngac cagggacaca 180
 tgttcgggta tgctaccnan tagaccntg agttgatgcc cctcagccat gtccttg 237

<210> 315
 <211> 280
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 315

tctcatccca ctgactccgn ccacccaccc gcccgctgcc tccgccgat ctcgtcggac 60
 tcggatccgc ccgaccacga ccaccccgcg ccgccgccgc gcagagcagc agatcagaga 120
 agatggccgg actcgacacc ttctcttca cctcggagtc cgtgaacgag ggacaccctg 180
 acaagctctg cgaccaggtc tcagatgctg ttctggacgc ttgccttgct gaggaccctg 240
 acagcaagggt tgcttgcgag acctgcacca agaccaacat 280

<210> 316
 <211> 269
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 316

```
cgtgaaggag aacttcgact tcaggcccg gatgatcagc atcaacctcg acctgaagaa   60
gggcggcaac aggttcatca agaccgccc ctacggccac ttcggccgtg acgacgccga  120
cttcacctgg gaggtggtga agcccctcaa gttcgacaag gcatcggcctt aaggttggga  180
gtgtcactgt ggacatgagg actaccttcc tctggctctg ctgttacctg caagcattgc  240
tgctgctgga tgngtgtgtt tgatcatga                                     269
```

<210> 317
 <211> 229
 <212> DNA
 <213> Zea mays

```
<400>        317
ccgacaagga gatacctaaag atcgtcaagg agaacttoga cttcaggcca gggatgatca   60
ccatcaacct cgacctcaag aagggcggca acaggttcat caagaccgcc gcatacggcc  120
actttggccg tgacgacgcc gacttcacct gggaggtggt caagccccta aagaaggcat  180
ccgcttaaga atgtattggg aagttcatgg acatgagggt catcttcgt                 229
```

<210> 318
 <211> 418
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 318

```
tatcatcgtn nccagctgnc tctnccnncn ggngcctttn gcaagtntcc tangccatcg   60
ncgtgcnga ncccctgtcc ntgttcgtcg actcctacng naccnggacc atncccgaca  120
aggagatcct aaagatcttc aaggagaact tcnacttcan gccanggatg atcaccatca  180
acctcgacct caagaaggnc ggcaacaggt tcatcaagac cgnccnatac ggcactttng  240
cogtgacgac tcttacttca cctgagaagt ggtcaaacc ctaaagaaag cattcnctta  300
aaaatgtatt nggaanttna actggacatt atgttcatnt ttcttcttgg ttcttctnat  360
acctgcaaag attgctgntt cttctntccn nccttgatg tgtgtttgan caatgant      418
```

<210> 319

<211> 267
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 319

acgccatcgg cgtgccggag cccctgtccg tgttcgtcga cacctacggc accgnggacc 60
 atccccgaca aggagatcct aaagatcgtc aaggagaact tcgacttcag gccaggggatg 120
 atcaccatca acctcgacct cnagaagggn ggcaacnggn tcntnaagan cggnggaana 180
 ggctatttgg ncgtgaangg ntcggattca ncctggtggg gtggtaannc cctnaaangn 240
 gnnnnccctgt tnnaagnttt tgggggag 267

<210> 320
 <211> 179
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 320

cccctggctc aggcccgatg ggaagacca ggtgacantg gagtaccgca acgaggggtgg 60
 cgccatggtt cccatccgtg tgcacacagt cctcatctct acncagcacg acgagacagt 120
 caccaacgac gagattgctg ctgacctgaa ggagcacgtc atcaagccag tcatccccg 179

<210> 321
 <211> 280
 <212> DNA
 <213> Zea mays

<400> 321

cttcacgata ttgaggatct ccttgctcggg gatcgtgccg gagaacttcg acttcaggcc 60
 cgggatgata agcatcaacc tcgacctgaa gaagggcggc aacaggttca tcaagaccgc 120
 cgcctacggc cacttcggcc gtgacgacgc cgacttcacc tgggaggtgg tgaagcccct 180
 caagttcgac aaggcatcgg ctttaaggttg ggagtgtcac tgtggacatg aggactacct 240
 tcctctggct ctgctgttac ctgcaagcat tgctgctgct 280

<210> 322
 <211> 294
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 322

```
ctcttctccc tcttgccggt cccgaataan gagcagcagc gcnagaggtc ggtagagcga 60
gangnaggca atggcggccg agngttcctt ttcaaccttc ggagtcctg aacngggggc 120
nccccgaaca agctgtgcga ccagggtgtcg gacgccgtgc ttgatgcatg cctcgcgcng 180
ganccccgac agcnagggtgg cctgcgagat ctgcaccaag accaacaatgg tgatggtggt 240
cggcgagatc acgatcaagg cgancgtgga ctacnggaag atcgtgcgcg acac 294
```

<210> 323

<211> 280

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 323

```
ggggagccca tgggtggtggc gctttctccg gncaccgtag gtgtncaatg atgatcttgc 60
ggccagttag gccatcattg acacctacgg tggctgggga gcccatngtg gtggcgcttt 120
ctccggcaag gacctaacca aggttgaccg cagcggagcc tatgtcgcaa ggctggctgc 180
caagagcatc gttcgccagc ggccttgctn cgccgcgcca tcgtccaggt gtcttacgcc 240
atcggntggc ccgagcctct ctccgtgttc gtcgacacta 280
```

<210> 324

<211> 273

<212> DNA

<213> Zea mays

<400> 324

```
ccgttcgcct ctttctcttc cctcctgccg ggtccttaat aaagagcagc agcgcaaggt 60
gagccgccag cttgccccag gttggttagag cgagcgagaa gaaggcaatg gcggcggaga 120
gcttctctgtt cacctcggag tccgtgaacg aggggcaccc agacaagctg tgcgaccagg 180
tgtcggacgc ggtgctggac gcctgcctgg cgcaggaccc cgacagcaag tggctgcgag 240
acctgcacca agacgaacat ggtgatggtg ttc 273
```

<210> 325

<211> 215
 <212> DNA
 <213> Zea mays

 <400> 325

 ctccctcttg ccggtcccga ataaagagca gcagcgcaag aggtcggtag agcgagaaga 60
 aggcaatggc ggccgagagc ttccttttca cctcggagtc cgtgaacgag gggcacccccg 120
 acaagctgtg cgaccaggtg tcggacgccg tgcttgacgc atgcctcgcg caggacccccg 180
 acagcaaggt ggcctgcgag acctgcacca agacc 215

<210> 326
 <211> 291
 <212> DNA
 <213> Zea mays

 <400> 326

 gggagaactt cgacttcagg cccgggatga tcagcatcaa cctcgacctg aagaagggcg 60
 gcaacagggt catcaagacc gccgcctacg gccacttcgg ccgtgacgac gccgacttca 120
 cctgggaggt ggtgaagccc ctcaagttcg acaaggcatc ggcttaaggt tgggagtgtc 180
 actgtggaca tgaggactac cttcctctgg ctctgctgtt acctgcaagc attgctgctg 240
 ctggatgtgt gtgtttgatc agtgactggc tgctgctcca tagaagatga a 291

<210> 327
 <211> 173
 <212> DNA
 <213> Zea mays

 <400> 327

 ggtgagatca ccaccaaggc caatgtcgac tacgagaaga ttgtcagga gacatgccgc 60
 aacattggtt tcgtgtcgaa cgatgtcggg cttgacgctg accactgcaa gtgcttgtga 120
 acattgagca gcagtccct gatattgctc aggggtgtgca cggccacttc acc 173

<210> 328
 <211> 156
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 328

angaggggca ccccgacaag ctgtgcgacc aggtgtcgga cgccgtgctt gacgcatgcc 60
tcgcgagga ccccgacagc aaggtggcct gcgagacctg caccaagacc aacatgggtga 120
tgggtgttcgg cnagatcacg accanggcga ccgtnt 156

<210> 329
<211> 178
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 329

cccacggcgg gggcgccctt tccggcaagg acccgaccaa ggtggaccgc agcggggcct 60
acgtcgcgag gnaggctgcc aagagcatcg tcgccgcgg cctcgccgcg ngcgccattg 120
tccaggcttc ctacgccatc ggcgtgcccg ancccccttc ggtgttcgtg gacacgta 178

<210> 330
<211> 176
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 330

tagttctaga tcggcaagng cnnccnttgn canatgttcg ggtacgccac cgacgagacc 60
cccgagctga tgccgtgag ccacgtgctg gccaccaagc tgggcgcgcg cctcaccgag 120
gtgcgcaaga acggcacctg cgcttggtg aggcccgacg gcaagacca ggtgac 176

<210> 331
<211> 263
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 331

cttctcctc ttgccggttn cgnntaaaga ncagcagcgc aagaggtcgg tagagcgatg 60
aagaaggcaa tggcgccgn nagcttcctt ttcacctng antccgtgaa cgangggcan 120
ccnganaagc tgtgcncca ngntcggac gccgtgcttg acgcatgcct cgcgaggan 180
cccgcagca aggtggatgc gagacctgca taagaccaac atggtgatgg tttcgnca 240

gatcacgacc aaggcgnccg tgg

263

<210> 332

<211> 225

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 332

cgtttgctc ttctccctct tgccgggtccc gaataaagag cagcagcgca agaggtcggt 60

agagcgagaa gaaggcaatg gcggccgaga gcttcctttt cacctcggag tccgtgaacg 120

aggggcaccc cgacaagctg tgcgaccagg tgtcggacgc cgtgcntgac gcatgcctcg 180

cgcaggaccc cgacagcaag gtggcctgcg agacctgcac canga 225

<210> 333

<211> 331

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 333

gtcggatctg agacgagacg agacgannnc cctccccctc aaccggaact tgttttaccc 60

catctcatcc cactgactcc nncacccac ccgcccgcng cctccgccgg atctcgtcgg 120

actcggatcc gcncgaccac gaccaccccg cgtcggccgc gcgcanagca gcagatcaga 180

gaagatggcc ggactcgaca ccttcctctt cacctcggag tccgtgaacg agggacaccc 240

tgacaagctc tgcgaccagg tctcagatgc tgttctggac gcttgccttg ctgaggaccc 300

tgacagcaag gttgcttgcg agacctgcac c 331

<210> 334

<211> 166

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 334

ggaagaccca ggtgacagtg gagtaccgca acgaggggtg cgccatggtt cccatccgtg 60

tgcacacagt cntcatctct acccagcacg acgagacagt caccaacgac gagattgctg 120

ctgacctgaa ggagcacgtc atcaagccag tcatccccga gcagta 166

<210> 335
 <211> 170
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 335

ccatggttcc catccgtgtg cacacagtcc tcatctctac ccagcacgac gagacagtca 60
 ccaacgacga gattgctgct gacctgaagg agcacgtcat caagccagtc atccccgagc 120
 agtacctcga cgagaagaca atnttccacc tcaaccngtt ggngggttcgt 170

<210> 336
 <211> 247
 <212> DNA
 <213> Zea mays

<400> 336

atcatcaacc tcgacctcaa gaaaggcggc aacgggcgct acctcaagac ggcggcctac 60
 gggcactttg ggagggacga ccccgacttc acctgggagg tggagaagcc cctcaaggcg 120
 gagaagccgt cttctgcatg aggcgcctcc tctgtttcgg aagaagcttt tggctctggc 180
 tgccctgcgct ctatcatgct tttttatggc tcctacgtgt tgtgattctt gatctgcccc 240
 ttgctta 247

<210> 337
 <211> 196
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 337

gcagtnccct gatatngctc aggggtgtgca tggccacttc accaagcgcc ccgaggagat 60
 tngagcnggt gaccagggac acatgttang gtatgcgacc gatgagacnc ctgagttgat 120
 gccctcagc catgtccttg ccaccaagct aggtgcacgt ntcaaccgag gtccgcaaga 180
 acggaaccng ccaactg 196

<210> 338
 <211> 211

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 338

 ctccctcttg ccggtcccga ataaagagca gcagcgcaag aggtcggtag agcgagaaga 60
 aggcaatggc ggccgagagc ttccttttca cctcggagtc cgtgaacgag gggcaccgcc 120
 acaagctgtg cgaccagggtg tcggacgccg tgcttgacgc atgcntcgcg caggaccgcc 180
 acagcaaggt ggcttgcgag acctncacca a 211

<210> 339
 <211> 302
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 339

 gacgagacga gttaccatct catcccaact ccggaacgaa caagttacca tctcatccca 60
 actnccgcct tcgaccggat ctncgtcgga ctcggatccg cccgaccacc ccgcgccgcc 120
 gcagatcaaa gaagatggca gctgtcgaca cattcctctt cacctcggag tctgtgaacg 180
 agggacaccc tgacaagctc tgtgaccagg tctcagatgc cgttcttgac gcttgccctg 240
 ctgaggaccc tgacagcaag ttgcttgtga gactgcacca agaccaacat ggtcatggtc 300
 tt 302

<210> 340
 <211> 263
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 340

 tcgacttcag gcccgggatg atcagcatca acctcgacct gaagaagggc gncaacagggt 60
 tcatcaagac cgccgcctac ggccacttcg gccgtgacga cgccgacttc acctgggagg 120
 tggatgaagcc cctcaagttc gacaaggcat cggcttaagg ttgggagtgt cactgtggac 180
 atgaggacta ccttcctctg gctctgctgt tacctgcaag cattgctgct ctggatgtgn 240
 gtgttaatca ganactgctg ctc 263

<210> 341
 <211> 300
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 341

cttcgnactt caggccccggg atgatacagca tcaacctcga cctgaagaag ggcggcaaca 60
 ggttcatcaa gaccgccgcc tacggccact tcggccgtga cgacgccgac ttcacctggg 120
 aggtggtgaa gcccctcaag ttcgacaagg catcggctta aggttgggag tgtcactgtg 180
 gacatgagga ctaccttcct ctggctctgc tgttacctgc aagcattgct gctgctggat 240
 gtgtgtgttt gatcagtgc tggctgctgc tccatagaag atgaacggag agaaggatga 300

<210> 342
 <211> 249
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 342

atccgtttgc ctcttctccc tcttgccggt cccgaataaa gancagcagc gcaagaggtc 60
 ggtanagcga gaagaaggca atggcggccg agagtccctt ttcacntcgg agtccgtgaa 120
 cgagggggcac cccgacaagc tgtgcgacca gntgtcggac gccgtgcttg angcatgnct 180
 cgcgaggagc cccgacagca aggtggcctg cgagactgca ccaagaccaa nntgggtgatg 240
 gtgttcggc 249

<210> 343
 <211> 196
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 343

caatctncca cntcaaccgg nctgagncgc ttcgncatcg gcggacctca cggcgacgcn 60
 ggnctcantg gccggaagat acatcatcga cacctacggn ggctggggag cccacggcgg 120
 gggcgccctnc tccggcaagg ncccgaacaa ggtggacngc agcggggcct acgtcgcgan 180
 gnaggctgcc aagagc 196

<210> 344
 <211> 249
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 344

 atcaacctcg acctcaagaa aggcggcaac gggcgctacc tcaagacggc ggcctacggg 60
 cactttggga gggacgaccc cgacttcacc tgggaggtgg tgaagcccct caaggcggag 120
 aagccgtctt ctgcagaggc gcctcctctg ttttgaaga agcttttggt ctgncctggg 180
 ctggtctggg gtgccncgcg ctctatcatg cttttttatg gctcctactt gtgattcttn 240
 atctgcccc 249

<210> 345
 <211> 143
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 345

 cgactcctac ggcaccggga ccatccccga caaggagatc ctaaagatcg tcaaggagaa 60
 cttcgacttc aggccaggga tggtcacat caacctcgac ctcaagaagg gcggcaacag 120
 gttcatcaag accgccgcat ang 143

<210> 346
 <211> 142
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 346

 ccgagcctct ctccgtgttc gtngacacgt acggcaccgg cgcgatcccc gacaaggaga 60
 tcctcaagat tgtcaaggag aacttcgatt tcaggcctgg catgatcatc atcaaccttg 120
 acctcaagaa aggcggcaac gg 142

<210> 347
 <211> 288
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 347

cgagacgagt naccatntca tncccaacnc cggaacgaac aagttaccat ntcatnccca 60

acncccgctt cgaccggatc tccgtcggac tccggatccg cccgaccacn ccgcgccgcc 120

gcagatcaaa gaagatggca gctgtcgaca cattcctctt cacntcggag tctgtgaacg 180

agggacacnc tgacaagctc tgtgaanagg tctcagatgc cgttcttgac gcttgcnttg 240

ctgaggaccc tgacagcaag gttgcttggtg agaccngcac caagacca 288

<210> 348

<211> 288

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 348

gagacgagac gagtcccctc cccccacctc gcctcaccca accggaacga acaagttaca 60

atctcatccc aaccccgctt ccgaccggat ctctcggac tcggatccgc ccgaccaccc 120

cgcgccgccg cagatcaaag aagatggcag ctgtcgacac attcctcttc acctcggagt 180

ctgtgaacga gggacaccct gacaagctct gtgaccaggt ctgagatgcc gttcttgacg 240

cttgcnttgc tgaggaccct gacagcaagg ttgcttggtga gacctgca 288

<210> 349

<211> 147

<212> DNA

<213> Zea mays

<400> 349

ccgacaagga gatcctaaag atcgtcaagg agaacttcga cttcaggcca gggatgatca 60

ccatcaacct cgacctcaag aagggcggca acaggttcat caagaccgcc gcatacggcc 120

actttggccg tgacgacgcc gacttca 147

<210> 350

<211> 264

<212> DNA

<213> Zea mays

<223> unsure at all n locations
 <400> 350

cttctccctc ttgccggtcc cgaataaaga gcagcagcgc aagaggtcgg tagagcgaga 60
 agaaggcaat ggcgccgag agcttccttt tcacctcgga gtccgtgaac gaggggcacc 120
 ccgacaagct gtgcgaccag tgtggacgcc gtgcttnacg catgcctcgc gcagaccccg 180
 acagcaaggt ggctgcgag acctgcacca agaccaacaa tgtgatngtg ttcggcgaga 240
 tnagancaaa gngactgnga tnca 264

<210> 351
 <211> 235
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 351

cgctcttct cctccctcct gccgggtcct tantaaagag cagcagcgca agaggttggt 60
 agagcgagcg agaagaaggc aatggcggcg gagagcttcc tgttcacctc ggagtccgtg 120
 aacgaggggc acccagacaa gctgtgcgac caggtgtcgg acgcggtcnt gacggcttcc 180
 tggngcagga ccccgacagc aaggtggcct gcgagacctg caccaagang aacat 235

<210> 352
 <211> 211
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 352

cgtttgctc ttctccctct tgccggtccc gaataaagag cagcagcgca agaggtcgg 60
 agagcgagaa gaaggcaatg gcggccgaga gcttcctttt cacctcgag tccgtgaacg 120
 aggggcaccc cgacaagctg tgcgaccagg tgtcggacgc cgtgcttgac gcatgcntcg 180
 cgcaggaccc cgacagcaag gtggcctgcn a 211

<210> 353
 <211> 212
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<400> 353

gtttgcntct tctccctctt gccggtcccg aataaagagc agcagcgcaa gaggtcggta 60

gagcgagaag aaggcaatgg cggccgagag cttccttttc acatcggagt ccgatgaacga 120

gggncaacncc gacaagctgt gcgaccaggt gtcggacgcc gtgcttgacg catgcntcgc 180

gcaggacccc gacagcaagg tggcctgcga ga 212

<210> 354
 <211> 490
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 354

taaagatcgt caaggagaac ttcgacttca ggccagggat ggtcaccatc aacctcgacc 60

tcaagaaggc cggcaacagg ttcatacaaga ccgccgcata cggccacttt ggccgtgacg 120

acnccgactt cacctgggag gtggtcaagc ccctaaagaa ggcataccgt taagaatgta 180

ttgggaagtt cactggacat gaggttcac ttcgtctggc tctgctgata cctgcaagga 240

tnnnnnnnnn nnnnnnnnnc ctggatgtgt gtttgatcag tgactggctg ctctgctcca 300

tagaagatga atgaagagag agatggtgaa naaggctttg gcaaattggc attgccgaac 360

aagccatgtc gcnccactga ccggcttaat gattggtata atttggtgtg gcaacancca 420

ggattaatgc ccctggnet tttatcnttac tactaanttg ggctngtccg gtatctaatt 480

ttctttccct 490

<210> 355
 <211> 389
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 355

gnnnagccn ttgananggg gggnttnatg aatcngtacc ggtccggaat tcccgggtcg 60

accacgcgt ccgcggacgc gtgggcctcg acctcaagaa aggcggcaac gggcgctacc 120

tcaagacggn ggctacggg cactttggga gggacgaccc cgacttcacc tgggaggtgg 180

tgaagcccct caaggcggag aagccgtctt ctgcatgagg cgcctcctct gtttcggaag 240

aagcttttgg tctggtctgc ctgcgctcta tcatgctttt ttatggctcc tacgtgttgt 300
gattcttgat ctgccccttg cttatcattt gtattgtact gtcactgtcc taataagtgg 360
tacgtgtgcg gggtcgtatt gtgtctgct 389

<210> 356
<211> 289
<212> DNA
<213> Zea mays

<400> 356

gtcggatctg agacgagacg agtccccctcc cccacacctg cctcacccaa ccggaacgaa 60
caagttacaa tctcatccca accccgcctc gaccggatct cgtcggactc ggatccgccc 120
gaccaccccg cgccgccgca gatcaaagaa gatggcagct gtcgacacat tcctcttcac 180
ctcggagtct gtgaacgagg gacaccctga caagctctgt gaccaggtct cagatgccgt 240
tcttgacgct tgccttgctg aggaccctga cagcaagggt gcttgtgag 289

<210> 357
<211> 264
<212> DNA
<213> Zea mays

<400> 357

gggatgatca gcatcaacct cgacctgaag aagggcgcca acagggttcat caagaccgcc 60
gcctacggcc acttcggccg tgacgacgcc gacttcacct gggaggtggt gaagcccctc 120
aagttcgaca aggcacggc ttaagggttg gagtgtcact gtggacatga ggactacctt 180
cctctggctc tgctgttacc tgcaagcatt gctgctgctg gatgtgtgtg tttgatcagt 240
gactggctgc tgctccatag aaga 264

<210> 358
<211> 263
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 358

gggatgatca gcatcaacct cgacctgaag aagggcgcca acagggttcat caagaccgcc 60
gcctacggcc acttcggccg tgacgacgcc gacttcacct gggaggtggt gaagcccctc 120

aagttcgaca aggcacggc ttaagggttg gagtgtcact gtggacatga ggactacctt 180
cctctggctc tgctgtnacc tgcaagcatt gctgctgctg gatgtntgtg tttgatcagt 240
gantggctgc tgctccatag ang 263

<210> 359
<211> 268
<212> DNA
<213> Zea mays

<400> 359
gagacgagac gagttaccat ctcaccccaa ctccggaacg aacaagttac catctcatcc 60
caactccgcc tcgaccggat ctgctcggac tcggatccgc ccgaccaccc cgcgccgccg 120
cagatcaaag aagatggcag ctgtcgacac attcctcttc acctcggagt ctgtgaacga 180
gggacaccct gacaagctct gtgaccaggt ctcagatgcc gttcttgacg cttgccttgc 240
tgaggaccct gacagcaagg ttgcttgt 268

<210> 360
<211> 289
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 360

gtcggatctg agacgagacg agtccctcc cccacctnc gcctcaccca accggaacga 60
acaagttaca attctcatcc caacccgcc tcgancggat ctgctcggac tcggatccgc 120
ccgaccaccc cgcgccgccg cagatcaaag aagatggcag ctgtcgacac attcctcttc 180
acctcggagt ctgtgaacga gggacaccct gacaagctct gtgaccaggt ctcagatgcc 240
gttcttgacg cttgccttgc tgaggaccct gacagcaagg ttgcttgtg 289

<210> 361
<211> 252
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 361

ctcttctccc tcttgccggt cccgaataaa gagcagcagc gcaagaggtc ggtagagcga 60

gaagaaggca atggcggccg agagcttcct ttccacctcg gaggccgtga acgaggggca 120
 cccgacaagc tgtgcgacca ggtgtcggac gccgtgcttn acgcatgcct cggcaggacc 180
 ccgaaacaag tggctggaga ccttcaccaa gancaatntg gtgatgggtg tcggngaate 240
 acgacaaggc ga 252

<210> 362
 <211> 246
 <212> DNA
 <213> Zea mays

<400> 362

gacgagcatc aacctcgacc tgaagaaggc cggaacagg ttcacgaaga ccgccgccta 60
 cggccacttc gccgtgacg acgccgactt cacctgggag gtggtgaagc ccctcaagtt 120
 cgacaaggca tcggcttaag gttgggagtg tcaactgtga catgaggact accttcctct 180
 ggctctgctg ttacctgcaa gcattgctgc tgctggatgt gtgtgtttga tcagtgactg 240
 gctgct 246

<210> 363
 <211> 240
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 363

cgacctggnc gnggacgcgt ggcngaagc cgtngggccc ggcctcganc cgccncgcca 60
 ttgtccagga tntcctacgc cangcggctg cccanaccc ctttcgggtg tcgtggacac 120
 gtacggcacc ggcgcgatcc ccgacaagga gatcctgaag atcgtgaagg agaacttcga 180
 cttcaggccc ggcattgntca tcatcaacct cgacctcaag aaaggcngca agggcgact 240

<210> 364
 <211> 270
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 364

gacgagacga gtcccctccc cccacctacg cctcacccaa ccggaacgaa caagttacaa 60

tctcatccca accccgcctn cgaccggatc tcgtcggact cggatccgcc cgaccacccc 120
gcgccgccgc agatcaaaga agatggcagc tgtcgacaca ttctcttca cctcggagtc 180
tgtgaacgag ggacaccctg acaagctctg tgaccaggtc tcagatgccg ttcttgacgc 240
ttgccttgct gaggaccctg acagcaagg 270

<210> 365
<211> 252
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 365

ttctagatcg cgggcgggccg ctgcgccacg cgtcogatec ccgttcgcct cttctcctcc 60
ctcctgccgg gtccttaata aagagcagca gcgcaagagg ttggtagagc gagcgagaag 120
aaggcaatgg cggcgagag cttcctgttc acctcggagt ccgtgaacga ggggcaccca 180
gacaagctgt gcgaccagggt gtengacgcn gtgctggacg cctgcctggc gcaggacccc 240
gacagcaagg tg 252

<210> 366
<211> 320
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 366

gtcggatctg agacgagacg angngncct ccctcaacc ggaacttggt ttaccccatc 60
tcatcccaact gactcngcc acccannann ncnntgcctc cgccggatct cgtcggactc 120
ggatccgccc gaccacgacc accccgcgcc gccgccgcgc agagcagcag atcagagaag 180
atggccggac tcgacacctt cctcttnacc tcggagtccg tgaacgagg acaccctgac 240
aagctctgcg accaggtctc agatgctggt ctggacgctt gccttgctga ggaccctgac 300
agaaagttgt tgcgagactg 320

<210> 367
<211> 274
<212> DNA
<213> Zea mays

<400> 367

ggccgggtcg gatctgagac gagacgagtt accatctcat cccaactccg gaacgaacaa 60
gttaccatct catcccaact ccgcctcgac cggatctcgt cggactcgga tccgcccgcac 120
caccgccgcg cgcgcgagat caaagaagat ggcagctgtc gacacattcc tcttcacctc 180
ggagtctgtg aacgagggac accctgacaa gctctgtgac caggtctcag atgccgttct 240
tgacgcttgc cttgctgagg accctgacag caag 274

<210> 368

<211> 271

<212> DNA

<213> Zea mays

<400> 368

gtcggatctg agacgagacg agttaccatc tcatcccaac tccggaacga acaagttacc 60
atctcatccc aactccgcct cgaccggatc tcgtcggact cggatccgcc cgaccacccc 120
gcgccgccgc agatcaaaga agatggcagc tgtcgacaca ttctctttca cctcggagtc 180
tgtgaacgag ggacaccctg acaagctctg tgaccaggtc tcagatgccg ttcttgacgc 240
ttgccttgct gaggaccctg acagcaagtt g 271

<210> 369

<211> 274

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 369

gacgagacga gtcccctnac cccacctac gcctcaccca accggaacga acaagttaca 60
atactgcac ccaacccgc ctcgaccgga tctcgtcgga ctccgatccg cccgaccacc 120
ccgcgcgcgc gcagatcaaa gaagatggca gctgtcgaca cattcctctt cacctcggag 180
tctgtgaacg agggacaccc tgacaagctc tgtgaccagg tctcagatgc cgttcttgac 240
gcttgccctt ctgaggaacc tgacagcaag gttg 274

<210> 370

<211> 203

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 370

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ctcttctccc tcttgccgnt cccgaataaa gagcagcagc gcaagaggtc ggtagagcga 60
gaagaaggca atggcggccg agagcttcct ttacacntcg ggtccgtga acgaggggca 120
cgccgacaag ctgtgcgacc aggtgtcgga cgccgtgctt gacgcatgcc tcgcgagga 180
cnccgacagc aagtggcctg cga 203
```

<210> 371

<211> 201

<212> DNA

<213> Zea mays

<400> 371

```
gcctcttctc ctccctcctg ccgggtcctt aataaagagc agcagcgcaa gaggttggtgta 60
gagcgagcga gaagaaggca atggcggccg agagcttcct gttcacctcg ggtccgtga 120
acgaggggca ccagacaag ctgtgcgacc aggtgtcgga cgcggtgctg gacgcctgcc 180
tggcgagga ccccgacagc a 201
```

<210> 372

<211> 307

<212> DNA

<213> Zea mays

<400> 372

```
tcagcatcaa cctcgacctg aagaagggcg gcaacagggt catcaagacc gccgcctacg 60
gccacttcgg ccgtgacgac gccgacttca cctgggaggt ggtgaagccc ctcaagttcg 120
acaaggcatc ggcttaaggt tgggagtgtc actgtggaca tgaggactac cttcctctgg 180
ctctgctgtt acctgcaagc attgctgctg ctggatgtgt gtgtttgatc agtgactggc 240
tgctgctcca tagaagatga acggagagaa ggatgatgaa gggctttggc aatcgccgct 300
gcaactg 307
```

<210> 373

<211> 283

<212> DNA

<213> Zea mays

<223> unsure at all n locations
 <400> 373

```
gtcttacgcc atcgggtgcc cgagcctctc tccgtgttcg tcgacacgta cggcaccggc 60
gcgatccccg acaaggagat nctcaagatt gtcaagngaa ttcgatttca ggccctggcat 120
gatcatcatc aaccttgact caagaaaggc ggcaacgggc gctactcaag acgcggccta 180
cggcactttg gaaggagacc tgattcactg ggagtgggga accatcaatg gagaacttgc 240
tcnnngctat tatataantt gtgcgttctg actatngtta nag 283
```

<210> 374
 <211> 181
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 374

```
cttgccggtc ccgaataaag agcanncagc gcaagagntc ggtagagcga caagaaggca 60
atggcgcccg agagcttctt ttccacctcg gagtccgtga acgaggggca ccccgacaag 120
ctgtgcgacc aggtgtcgga cgccgtgctt gacgcatgcc tcgcgagga ccccgacagc 180
a 181
```

<210> 375
 <211> 201
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 375

```
ctgccgggtc cttaataaag agcagcagcg caaggngagc cgccagcttg cccaggttg 60
gtagagcgag cgagaagaag gcaatggcgg cggagagctt cctgttcacc tcggagtccg 120
tgaacgaggg gcacccagac aagctgtgcg accaggtgtc ggacgcggtg ctggacgcct 180
gcctggcgca ggaccccgac a 201
```

<210> 376
 <211> 216
 <212> DNA
 <213> Zea mays

<400> 376

acatccatcc ccggttcgcct cttctcctcc ctccctgccg gtccttaata aagagcagca 60

gcgcaagagg ttggtagagc gagcgagaag aaggcaatgg cggcggagag cttcctgttc 120

acctcggagt ccggtgaacga gtggcaccca gacaagctgt gcgaccaggt gtcggacgcg 180

gtgctggacg cctgcctggc gcaggacccc gacagc 216

<210> 377

<211> 130

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 377

gtcgaacgat gtcgggcttg acgctgacca ctgcaagggtg cntgtgaaca ttgagcagca 60

gtcccctgat attgcncagg gtgtgcacgg ccacttcacc aagcgccccg aggagattng 120

agctggtgac 130

<210> 378

<211> 306

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 378

gtcggatctg agacgagacg agacgatccc ccctcncctc aaccggaact tgttttaccc 60

catctcatcc cactgantcc acccaccac cgcgccgntg cntccgccg atntcgtcgg 120

actcggatcc gcccgaccac gaccaccccg cgtcgccgcc gcgcanagca gcagatcaga 180

gaagatggcc ggactcgaca cttctctctt cacctcggag tccgtgaacg agggacaccc 240

tgacaagctc tgcgaccagg tctcagatgc tgttctggag gnttgccttg ctgaggaccc 300

tgacag 306

<210> 379

<211> 313

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 379

gagacgagac gannnnccct cccctcaacc ggaacttggt ttaccccatc tcatcccact 60
 gactccancn acccaccgcg ncgctgcctc cgccggatct cgtcggactc ggatccgccc 120
 gaccacgacc accccgcgct gccgcgcgcg agagcagcag atcagagaag atggccggac 180
 tcgacacctt cctcttcacc tcggagtccg tgaacgaggg acaccctgac aagctctgga 240
 ccaggtctca gatgctgttc tggacgcttg ccttgctgag gacctgacag caaggttgct 300
 tgggagacct gca 313

<210> 380

<211> 134

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 380

gcngacctca nggagcacgt catcaagcnc gtgatccctg agaagtacct cgacgagang 60
 accatcttcc acctcaaccc gtccggggcg ttcgtcatcg gcngggccca cggtnacncc 120
 ngcntcacng gtgc 134

<210> 381

<211> 294

<212> DNA

<213> Zea mays

<400> 381

ccgggtcgga tctgagacga gacgagttac catctcatcc caactccgga acgaacaagt 60
 taccatctca tcccaactcc gcctcgaccg gatctcgtcg gactcggatc cgcccgacca 120
 ccccgcgccg ccgcagatca aagaagatgg cagctgtcac acattcctct tcacctcgga 180
 gtctgtgaac gagggacacc ctgacaagct ctgtgaccag gtctcagatg ccgttcttga 240
 cgcttgccctt gctgaggacc ctgacagcaa ggttgcttgt gagactgcac caag 294

<210> 382

<211> 164

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 382

cctgagttga tgcccctcag ccatgtcctt gccagcaaac taggtgctcg tntcaccgag 60
 gtccgcaaga gcggaacct gccctggct acaggcctga tgggaagacc caggtgacag 120
 tcgagtaccg cantgagggt ggtgccatgg tccccatccg tntc 164

<210> 383
 <211> 247
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 383

cggagaaacc ttctgnctaa ggccgccgtn ttgaggtagn gnccgtngcc gactttcttg 60
 nggnnnaggt tgatnatgat catgccaggc ctgaaatcga agttctcctt gacaatcttg 120
 aggatctcct tgtcggngat cagngccagt gcacgtacag ngtcnacgaa cacnganaga 180
 ngctcgggca ctccnntnnc ngtaagacan ctggacnatg gttagtgnaa gtnatncnt 240
 tgaanac 247

<210> 384
 <211> 207
 <212> DNA
 <213> Zea mays

<400> 384

cacgtctaata cagacatctt actcagaagt catctttgct tgccgggtccc gaataaagag 60
 cagcagcgca agaggtcggg agagcgagaa gaaggcaatg gcggccgaga gcttcctttt 120
 cacctcggag tccgtgaacg aggggcaccc cgacaagctg tgcgaccagg tgcgagacgc 180
 cgtgcttgac gcatgcctcg cgcagga 207

<210> 385
 <211> 292
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 385

gggtcggatc tgagacgagg cgagacgacc cccctcccc tcaaccggaa cttgttttac 60
 cccatctcat cccacagnct ccacccannc gcccgctgcc tccgccgat ctcgtcggac 120

tcggatccgc ccgaccaccc cgcgccgccg ccgcgcagag cagcagcaga tcagagaaga 180
 tggccggact cgacaccttc ctcttcacct cggagtcctg gaacgaggga caccctgaca 240
 agctctgcga ccaggtctca gatgctgttc tggacgcttg ccttgctgag ga 292

<210> 386
 <211> 142
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 386

cgcgcgctc accgaggtgc gcaagaacgg nncacctgcg cctggctgag gcccgaaggc 60
 aagaccaggg tgacgggtga gtacntgaac gagggcgggc ccatgggtgcc cgtccgcntg 120
 cacaccgtgt catctccaca ca 142

<210> 387
 <211> 137
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 387

gngggcgacc agggccacnt gnnccgggtac gccaccgacg agacccccga gctgatgcng 60
 ctgagccacg ngntggccac caagntgggc gcgcgcntca ccgangngcg caagaacggc 120
 acntggcncn tggngga 137

<210> 388
 <211> 159
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 388

gaaaggcggc aacggggcgt acctcaagac ggcggcctac gggcactttg ggaggnacga 60
 ccccgacttc acctggnagg tgggtgaagcc cctcaaggcg gagaagccgt cttctgcatg 120
 aggcgcctcc tctnttttgn aagangcttt tggtcnggt 159

<210> 389

<211> 268
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 389

 gacgagacga gtccccctccc cccacctcgc ctcacccaac cggaacgaac aagttacaat 60
 ctcatcccaa ccccgccctcg accggatctc gtcggactcg gatccgcccg accaccccgc 120
 gccgccgcag atcaaagaag aggcagctgt cgacacattc ctcttcacct cggagtctgt 180
 gaacncggga caccctgaca agctctgtga ccangtctca gatgccgttc ttgacgcttg 240
 ccttgctgag gaccctgaca gcaagggtt 268

<210> 390
 <211> 282
 <212> DNA
 <213> Zea mays

 <400> 390

 aagaagggcg gcaacagggtt catcaagacc gccgcctacg gccacttcgg ccgtgacgac 60
 gccgacttca cctgggaggt ggtgaagccc ctcaagttcg acaaggcatc ggcttaaggt 120
 tgggagtgtc actgtggaca tgaggactac cttcctctgg ctctgctgtt acctgcaagc 180
 attgctgctg ctggatgtgt gtgtttgatc agtgactggc tgctgcttcc atagaagatg 240
 aaggagagaa ggatgatgaa gggctttggc aatcgccgcg ca 282

<210> 391
 <211> 272
 <212> DNA
 <213> Zea mays

 <400> 391

 caacgggcgc tacctcaaga cggcggccta cggccacttt ggaagggacg accctgactt 60
 cacctgggag gtggtgaagc cactcaagtc ggagaaacct tctgcctaag gcggcctttt 120
 tttttcagta agaagctttt ggtggtctgc tgtgcttaat catgctttta tatggcttct 180
 acatgttgtg gttctttctt gatctgcacc gcgcttatcg tttgtgttgt actgccctaa 240
 taagtgggtgc tatgaggact gtttctgggtt tt 272

<210> 392
 <211> 291
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 392

 cggatctgag acgagacgag acgannnncc ctcccctcaa ccggaacttg ttttacccca 60
 tctcatccca ctgncctccn gccaccacc cgcncgctgc ctccgccgga tctcgtcgga 120
 ctcggatccg cccgaccacg accaccccg cgtcgccgccg cgcagagcag cagatcagag 180
 aagatggccg gactcgacac cttcctcttc acctcgaggt ccgtgaacga gggacaccct 240
 gacaagctct gcgaccaggt ctcagatgct gttctggacg cttgccttgc t 291

<210> 393
 <211> 531
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 393

 agnnnnnnnn natntaatga atttnangaa tgctctaccn gnaattcccg ggtcgaccca 60
 cgcgtccgnc cacncgtccg angagatcct caagatcgng aaggagaact tcgacttcag 120
 gcccnngnatg atcagcatca acctngacct gaanaaggnc ggcaacaggt tcatcaagac 180
 cgacgcctac agtcactten gncgtgacga cncgcactta cctggnaggt ggtgaacccc 240
 tcaagttcga caaggcatcg ncttaaggct gngaagtgc cactgtggac attgaggact 300
 accttactct ggctctgntg gtacctgcaa agcattggct gctgatggat gtntgngnct 360
 gatcaagnga ctggctgctg cttcatanna gatntaccgg aganaaagat gatgnataaa 420
 ggcttnggca atcggcggtt canctgnaac ccatgccatt ccgcttanng aatggggata 480
 anttggcttg gaaanaanca tcattattat ggncgtgaact ttcattctta c 531

<210> 394
 <211> 572
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 394

gggggnnnng gnaacttcta tntcgnccgc cacgggtccaa aaaatcccgg ggtccgaccc 60
 acgcgttccg aggcnaacttt tctcccggca aaggggacca aaccaaaggg tttgaaccnc 120
 aagccgggaa ccctaatttt cgcaaagggg caanggctng cccaaagaac caatccgtcc 180
 gcccaagccg ggccctttgc ctccgcccgc cgccaatccg ttccaangat tgtcttaacg 240
 ccaatccngg cgttnccccg aaacctctct ccgttggttcg tcgacacnta cggcaccngg 300
 cgcgatcccc gacaaggaan atnctcaaga ttgtcaagga agaacttcna tttcaggcct 360
 gngcatgatc atcatcaacc ttgacctcaa gaaangcggc aacggggcgc tacctcaaag 420
 acggcggcct aaggccactt tgggaaaggg acnaaccctg aattcaacct ggggaagggt 480
 gttgaaagcc aactcaaaag ttccgaaaaa aanccttctg gcccnaaagg cgggcccttt 540
 ttttcnagtt aanaaacctt ttgggggggg nc 572

<210> 395

<211> 127

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 395

cageggcctt gctcgcngcg ccatcggtcca ggtgtcttac gccatcggcg tgcccgatnc 60
 ctctctccgt gttcgtcgac acgtacggca ccggcgcgat ccccgacaag gngatcctca 120
 agattgt 127

<210> 396

<211> 294

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 396

tcggnatctg agacgagacg agacgannnn ccctcccctc aaccggaact tgttttaccc 60
 catctcatcc cactgactcc ntinnancnac ccgcangctg cctccgncgg atctcgtcgg 120
 actcggatcc gcccgaccac gaccaccccg cgtcgcgcgc gcgcagagca gcagatcaga 180
 gaagatggcc ggactcgaca ccttctcttt cacctcggag tccgtgaacg agggacaccc 240
 tgacaagctc tgcgaccagg tctcagatgc tgttctggac gcttgcttgc tgag 294

<210> 397
 <211> 270
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 397

cgantnacca tctcatccnc aactccggaa cgaacaagtt accatctcat ccanacttcc 60
 gcctcgaccg gatctngtcg gactcggatc cgcccgancca ccccgnggcc gccgcngatc 120
 ngagaagatg gcagctgtcg acacattcct cttnagctnc ggagtctgtg aacgagggac 180
 accctgacaa gncctgtgac caggtctcag atgccgtctt gacgcntgcn ttgctgagga 240
 ccctganagc naaggtgctt gtganacctg 270

<210> 398
 <211> 284
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 398

catcaacctc gacctcaaga ngggcggcaa caggttcatc aagaccgccg catacggcca 60
 ctttggccgt gacgacgccg acttcacctg ggaggtggtc aagcccctaa agaaggcatc 120
 cgcttaagaa tgtattggga agttcactgg acatgaggtt catcttcgtc tggctctgct 180
 gataacctgca aggatnnnnn nnnnnnnnnn nnnnnnnnga tgtgtgtttg atcagtgact 240
 ggctgctctg ctccatagaa gatgaatgaa gagagagatg gtga 284

<210> 399
 <211> 297
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 399

atctgagacg agacgnngnc nncctcncct caaccggaac ttgttttacc ccatctcatc 60
 ccantgante nagnnannca cncgcncgct gntccgncg gatctcttcg gactcggatc 120
 cgcccgancca cgaccanccc gcgccgccgc cgcgagagc agcagatcag agaagatggc 180
 cggactcgac accttctctt tcacctcgga gtccgtgaac gagggacacc ctgacaagct 240

ctgcgaccag gtctcagatg ctgttctgga ngttgcttgc tgangacctg acagcaa 297

<210> 400
 <211> 279
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 400

gtcggatctg agacgagacg agacgatnnc ccctcccctc aaccggaact tgttttacct 60
 catctcatcc cacngactcc ncccacccac ccgcccgtg cctccgccgg atctcgtcgg 120
 actcggatcc gcccgaccac gaccaccccg cgtcgccgcc gcgcagagca gcagatcaga 180
 gaagatggcc ggactcgaca ccttcctctt cacctcggag tccgtgaacg agggacaccc 240
 tgacaagctc tgcgaccagg tctcagatgc tgttctgga 279

<210> 401
 <211> 307
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 401

cggatctgag acgagacgag acgatnnncc ctcccctcaa ccggaacttg ttttacccca 60
 tctcatccca ctgantctnc ccatccaccc gcccgngcc tccgccggat ctcgtcggac 120
 tcggatccgc ccgaccacga ccaccccgcg tcgccgccgc gcagagcagc agatcagaga 180
 agatggccgg actcgacacc ttctctttca cctcggagtc cgtgaacgag ggacaccctg 240
 acaagctctg cgaccaggtc tcagatgctg ttctggacgt tgcttgctga ggacctgaca 300
 gcaaggt 307

<210> 402
 <211> 291
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 402

gtttgcctct tctccctctt gccgggtccc aataaagagc agcagcgcaa gaggtacggt 60

agagcgagaa gaaggcaatg gcggnccgaga gcttcctttt cacctcggag tccgtgaacg 120
 angggcaccc cgacaagctg tgcgaccagg tttaaaaaan ccgtgcttga cgcatgcctc 180
 gcgcagaccc cgacagcaag gtggcttncg agacttncac caagaccaca tgggtangttt 240
 tngnngntgg nncgncaaag nnaangngtt tnanaaaaat ntntnnancc c 291

<210> 403
 <211> 386
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 403

caagaaagnc ggcaacgggc cgctacctca agacgggggc gnacggccac tttggaaggg 60
 acgaccctga cttcacctgg gaggtggtga agccactcaa gtccgagaaa ctttctgcct 120
 aaggcggcct tttttttcag taagaagctt ttggtggtct gctgtgctta atcatgcttt 180
 tatatggctt ctacatgttg tggttctntc ttgatctgca ccgngcttat cgnntnngtt 240
 gtactgncct aataaatnng tgcttatgan gacttgtnn tggntnnnt antanngttn 300
 naatgcttta aaacaatgan tgaattncaa gccannnttt ttttgagaag taannattat 360
 tngntaannn gntnngnntn tnnngg 386

<210> 404
 <211> 144
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 404

tccgtgttcg tcgacacgta cggcaccggc gcgatccccg acaaggagat cctcaagatt 60
 gtcaaggaga acttcgattt caggcctggc atncatcatc atcaaccttg acctcaagaa 120
 aggcggcaac gggcgctacc tcaa 144

<210> 405
 <211> 293
 <212> DNA
 <213> Zea mays

<400> 405

agaacttcga cttcaggccc gggatgatca gcatcaacct cgacctgaag aagggcggca 60
acaggttcat caagaccgcc gcctacggcc acttcggccg tgaacgacgc cgacttcacc 120
tgggaggtgg tgaagcccct caagttcgac aaggcatcgg ctttaaggttg ggagtgtcac 180
tgtggacatg aggactacct tcctctggct ctgctgttac ctgcaagcat tgctgtgtgt 240
ggatgtgtgt gtttgatcag tgactggctg ctgtccatag aagatgaacg gag 293

<210> 406
<211> 175
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 406

ggtcaccatc aacctcgacc tcaagaaggc cggcaacagg ttcacatcaaga ccgccgcata 60
cggccatttg gncgtgacga cgccgacttc acctgggagg tggtaagcc cctaaagaag 120
gcatccgctt aagaatgtat tgggaagttc actggacatg aggttcatct tcgtc 175

<210> 407
<211> 219
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 407

aggggtgtgca cggccacttc accaagcgcc ccgaggagat tggagctggt gaccaggggc 60
acatgttttg gntgcgactg acgagacccc tgagtgatgc cctcagccat gtcttgccac 120
caagctggtg tcgtctcacg gagnccaag atggactgcc ctgntcagcc gtggaagacc 180
agtgcagtga tacgnagagg tggcatgtcc acggtnnnc 219

<210> 408
<211> 178
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 408

gccagggatg atcaccatca acctcgacct caagangggc ggcaacaggt tcacatcaagac 60
cgccgcatac ggccactttg gctgaacgac gccgacttca cctgggaggt ggtcaagccc 120

ctaaagaagg catccgctta agaatgtatt gggaagttca ctggacatga ggttcatc 178

<210> 409
 <211> 126
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 409

gcaatggcgg cggagagctt cctgttcacc tcggagtcg tgaacgaggg gcacccagnc 60
 aagctgttcg ancaggtgtc tgangcggtc tggangcctt cctgnntcag gancccgaca 120
 ntaaag 126

<210> 410
 <211> 132
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 410

gacctcaaga ngggcggcaa caggttcac cagaccgccg catacggcca ctttggccgt 60
 gacgacgccg acttcacctg ggaggtggtc aagcccctaa agaaggcatc cgcttaagaa 120
 tgtattggga ag 132

<210> 411
 <211> 83
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 411

gtcggangcg gtgctggang cctgcctggn gcagganncc ganagcaagg tggcctgcga 60
 ganctgcacc aagangaaca tgg 83

<210> 412
 <211> 133
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 412

gcctcgaccg gatctcgctg gactcggatc cgcccgacca ccccgcgccg ccgcagatca 60
aagaagatgg cagctgtcga cacattcctc ttcacctcgg agtctgtgaa ngaggganac 120
cctgacaagc tct 133

<210> 413
<211> 290
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 413

tcggatctga gacgagacga gacggnnnnc cctcccctca accggaactt gttttacccc 60
atctcatccc agtgantcnt accacncanc cgcgcgcngc ntccgcnnga tctngtcgga 120
ctcggatccg cccgaccacg accaccccgc gtcgcgcgcg cgcagagcag cagatcagag 180
aagatggccg gactcgacac cttcctcttc acctcggagt ccgtgaacga gggacaccct 240
gacaagtctg cgaccaggtc tcagatgtgt ttggacgttg nttgctgagg 290

<210> 414
<211> 310
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 414

aacaggttca tcaagaccgc cgcatacggc cactttggcc gtgacgacgc cgacttcacc 60
tgggaggtgg tcaagcccct aaagaaggca tccgcttaag aatgtattgg gaagttcact 120
ggacatgagg ttcattctcg tctggctctg ctgatacctg caaggatnnn nnnnnnnnnn 180
nnnnnnnnnn gatgtgtggt tgatcagtga ctggctgctc tgctccatag aagatgaatg 240
aagagagaga tgggtgaagaa ggctttggca aatggcaatt gccgcagcaa gccatgtcgg 300
cgccactgac 310

<210> 415
<211> 85
<212> DNA
<213> Zea mays

<400> 415

ctcagggtgt gcatggccac ttcaccaagc gccccgagga gattggagct ggtgaccagg 60
gacacatgtt cgggtatgcg accga 85

<210> 416
<211> 166
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 416

gagcagcagc gcaaggngan ccgccagctt gccccaggtt ggtagancga gcnagaagaa 60
ggcaatnncg gcggagagtt cctgttcacn tcggagtccg tgaacgangg gcacccagac 120
aagctgtgcg accaggtntc ggacgcggtg ctggacncc tgcntgg 166

<210> 417
<211> 267
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 417

aagacggcgg cctatggcca ctttggaagg gacgaccctg acttcacctg ggagggtggtg 60
aagccactgc aagtcggaga aaccttctgc ctaaggcggc cttttttttc agtaagaagc 120
ttttggtggt ctgctgtgct taatcatgct tttatanggc ttctacatgt tgtggttctt 180
tcttgatctg caccgcgctt atcgtttggtg ttgtactgcc ctaataagtg gtgcttatga 240
ggactgtttc tggttttgct gcttatg 267

<210> 418
<211> 273
<212> DNA
<213> Zea mays

<400> 418

acgacccccga cttcacctgg gaggtggtga agcccctcaa ggcggagaag ccgtcttctg 60
catgaggcgc ctctctgtgt ttggaagaag cttttggtct ggtctggtct ggtctggtgt 120
gcctgcgctc tatcatgctt ttttatggct cctacttggtg attcttgatc tgccccttgc 180
ttatcatttg tactgtactg tcactgtcct aataagtggg acgtgtgctg ggtcgtattg 240

tgtctgctta ttcacctaga ggattatttc tgg

273

<210> 419
<211> 57
<212> DNA
<213> Zea mays

<400> 419

atcgctgctg acctgaagga gcatgtcatc aagcctgtca tccctgagca gtacctt 57

<210> 420
<211> 235
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 420

gtcggatctg agacgagacg nngnnnccct cccctcaacc ggaacttggt ttaccccatc 60
tcacccact gactcngncc acccaccann ncantgcctc cgccggatct cgtcggactc 120
ggatccgcc gaccacgacc accccgcgcc gccgccgcgc acagcagcag atcagagaag 180
atggccggac tcgacacctt cctcttcacc tcggagtccg tgaacgaggg acacc 235

<210> 421
<211> 297
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 421

gccaaaggat gatcaacaat ccaacntcga nctccaagaa ngggcggnaa caggttcac 60
aagaccgccg catacggcca ctttggccgt gaacgacgcc gacttcacct gggaggtggt 120
caagccccta aagaaggcat ccgttaagaa tgtattggga agttcactgg acatgaggtt 180
catcttcgtc tggctctgct gatacctgca aggatnnnnn nnnnnnnnnn nnnnnnnnga 240
ttgtgtttga tcagtgactg gctgctctgc tccatagaag atgaatgaag agagaga 297

<210> 422
<211> 88
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<400> 422

cacncacgag accgtcacca acgacgagat cgccgccgac ctcaaggagc acgtcatcaa 60

gcccgtgata cctgagaagt acctgcga 88

<210> 423

<211> 285

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 423

ccgggtcggg tctgagacga gacgagttac catctcatcc caactccgga acgaacaagt 60

taccatctca tcccaactcc gcctcgaccg gatctcgctg gactcggatc cgcccgacca 120

ccccgcgcng ccgcagatca aagaagatgg cntcgctgac acattcctct tcacctcgga 180

gtctgtgaac gagggacacc ctgacaagtc tgtgaccagg tctcagatgc cgttcttgag 240

cttgcnttgc tgaggaccct gacagcaagg ttgttgtgag actgc 285

<210> 424

<211> 136

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 424

accacgacca cccgcgctcg ccgccgcgca naggcagcaga tcagagnaga tagccggatc 60

tgcacacnt cctcttcacc tcggagtccg tgaacgaggg acaccctgac aagctctgag 120

accaggtctc agatgc 136

<210> 425

<211> 217

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 425

cgagacgagt nncctcccc cactcgcct caccgaaccg gaacgaacaa gttacaatac 60

tcacccaac cccgccttcg accggatctc gtcggactcg gatccgccc accaccccg 120

gccgccgcag atcaaagaag atggcagctg tcgacacatt cctcttcacc tcggagtctg 180
tgaacgaggg acacctgac aagctctgtg accaggt 217

<210> 426
<211> 231
<212> DNA
<213> Zea mays

<400> 426
cggatctgag acgagacgag ttaccatctc atcccaactc cggaacgaac aagttaccat 60
ctcatcccaa ctccgcctcg accggatctc gtcggactcg gatccgccc accaccccgc 120
gccgccgcag atcaaagaag atggcagctg tcgacacatt cctcttcacc tcggagtctg 180
tgaacgaggg acacctgaca agctctgtga ccaggctcaa tgccgttctt g 231

<210> 427
<211> 85
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 427
agtacctcga ngagaagacc atcttccacc tcaacccgtc cgggcgcttc gtcacggnn 60
ggntcgangg tgacgtnggc ctcat 85

<210> 428
<211> 142
<212> DNA
<213> Zea mays

<400> 428
caaccccgcc tcgaccggat ctgctcggac tcggatccgc ccgaccaccc cgcgccgccg 60
cagatcaaag aagatggcag ctgtcgacac attcctcttc acctcggagt ctgtgaacga 120
gggacaccct gacaagctct gt 142

<210> 429
<211> 151
<212> DNA
<213> Zea mays

<400> 429

cgttcgcctc ttctcctccc tcctgccggg tccttaataa agagcagcag cgcaagaggt 60

tggtagagcg agcgagaaga aggcaatggc ggcgagagct tcctgttcac ctcgaggtcg 120

gtgaacgagg ggcacccaga caagctgtgc g 151

<210> 430

<211> 257

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 430

agtgtcctc ctcctatgaa gaaggactct ccacgttctc nccgtcaaag cagtggaaaa 60

cagatttggg cgaggtagca acagcgtctt cagcagcgca gaagctctgg tatacgagga 120

gccgcctcc aggcagctcc tgctccacca tgttggtgca gtcataagacc aaatctgttt 180

tccactgctt tgacggcgag aantgganna gtgtcctcc tcctatgaag aaggactaca 240

aactagctaa tcttctc 257

<210> 431

<211> 220

<212> DNA

<213> Zea mays

<400> 431

aaagagatga cgaagctctc ggggattcat gagatcattc ccgagatgga gatctgtgac 60

tttgagtttg acccctgtgg gtactcgatg aatggcgtct tcgggcctgc agcctccacc 120

atccacgtga caccgagga aggtttcagc tacgcaagct acgaagctat gaacttcgac 180

cccagctcac tggctacag cgatgtgatc aggagggtcc 220

<210> 432

<211> 240

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 432

gggagaaatt cgtgagatct tggnnctgtnt cagggcgtgc gagcnctgga atcatgggtt 60

tcacacatag cttcgnctnt tngaatttna tgtactaatg gagtcnaagg gtggcaaaaa 120
 gtcnnncngt agtcgttcta tgggtgatga agcgccctt ggctacagca ttgaggncgt 180
 tcgacctgcc ggagcgtgaa gaantccagc tgcggcttac tcgaactgcg ngaatnagcg 240

<210> 433
 <211> 263
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 433

cttgtgtcgg tagttttccg ttggctctgg ctgccttctt ctgcttctga gattccaact 60
 tgtcttgccc atctctctt ttctctctc atctctctt tcttgcaaca cgtcatccag 120
 tggcgatgtc ttcagcagat tcttgtgtct cttctctctgc ctccctatt ggctttgagg 180
 gctatgagaa gcgcctcgag atcacgttct ctgacgcgcc tgtctttgag gacccttgtg 240
 gtcgtggcnt gcgcgcctc tcc 263

<210> 434
 <211> 290
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 434

taatgctgat ggcaacacaa cattagtctt gaagaagaat gaagctttct tcaagactaa 60
 tgctgatggc aacacaacat anttccaagg aaatgacgaa gctctctggt atctctgaaa 120
 ttatccctga gaaggagatc tgtgattttg acttogaacc ctgcggctac tccatgaatg 180
 caatccatgg ctctgcgttc tccacgatcc atgtgacgcc tgaggatggg ttcagctacg 240
 ccagttatga ggttatgggc ttggatgcca ctgcctgtc ttacggtgac 290

<210> 435
 <211> 258
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 435

tggagcagga gctgcctgga ggcgggctcc tcgtgtacca tngcttctgt gntgctgaag 60

acgctgttgc tacctcgccc aaatctgttt tccacngcnt tganggcgag aacgtggaga 120
 gtgctcctcn tcgnntgagg agganancaa gnggnaang ttctntgttg ggagnatnan 180
 acgggntgcc atggaggaga nggcgggatt ccttgatgag taatangggg ctctgggntc 240
 gattagcttc tgattggt 258

<210> 436

<211> 263

<212> DNA

<213> Zea mays

<400> 436

cttgctctaa aacaatcgca gtcctgcaag ttgttgctgc tgctcctacc cctgcctctg 60
 caattgggtt tgagggatat gagaagcgcc tcgagatcag cttctatgag gcacctgtct 120
 tcgctgacct caacggaagg ggattgtgtg cactcttgcg tccctagatt tactctatct 180
 ctgacctgac acggtgcacc gttgtctctg agctatcaaa cgaggacttt gactctatgt 240
 cttatctgag tcaagcctgt ttg 263

<210> 437

<211> 266

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 437

cccaganatg gagatctgtg acttcgactt cnagccctgt ggctactcca tgacatgctg 60
 ttcatggcnc tgcnattgtc gaccattcat gnganccnc aggacgggca tcagctaata 120
 aaagcaacan ggncatgggc nttaanccgg ggctcctttc tcatatggtn anctggntaa 180
 ganggtgctg aagnnntttn gncnactga ntncnctggt gncgtaacct atcttccggt 240
 gatcgggcaa tgcgaagacc tggggg 266

<210> 438

<211> 281

<212> DNA

<213> Zea mays

<400> 438

gggctgcccc gtgtaggcaa gtcaaccatc atgagcgagc tttattaata tgatgcaagc 60
 tacctggttt ggtggtaatg cttatgtgat tgggtattct gcaaagcata agcagaagtg 120
 gcacgtctac tatgccacca ctgagcacc ctagaggagct tgttggttact cttgagatgt 180
 gcatgactag gctggacaag aagagagctt atgtcttctt caagacctct attgatgggt 240
 acacatcttg tgctaaggat atgaccaagc cttcagtgtat t 281

<210> 439
 <211> 334
 <212> DNA
 <213> Zea mays

<400> 439

gcagaagtgg cacgtctact atgccaccac tgagcaccac taaggagctt gttggttactc 60
 ttgagatgtg catgactagg ctggacaaga agagagctat gtcttcttca agacctctat 120
 tgatgggttac acatcttggtg ctaaggatat gaccaagcct tcagtggcat cgtcaaggag 180
 tgcgtcgtga ccagtgggtgc tagcagcaag gccatggcac tcagggtcca tgggtcgtgg 240
 gtgtggcttg ttcagcgcct actattcgcg ggagtcggcg aggtgcctgc tgaacttggt 300
 ggaagtggag tccattatga tctgacacga cctc 334

<210> 440
 <211> 349
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 440

catctatcct ctgaagattg tcatcaagac ctgtggcact accaagctcc tgctcacaat 60
 tccaaggatc ctagagcttg tgaagagctg tctatgtctt tgtgctgtga antatcccgc 120
 gggacgttca tctttcctgg cgnacagcag cccccaccg gagttctccg aggagttgtg 180
 tattaaccgt actttggggg ctgaagtctg gtggcatgct tatgtgattg gagatgcagc 240
 aagaccagga cagaagtggc acatctatac gccactgagt acccagagca accatgtcac 300
 cttgagatgt gcatgatggg tggacagaag aagcttcac ttcttcaag 349

<210> 441
 <211> 260

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 441

 tttctcttat gngacctgg ntaagagggg gctgaggcgc ttnggtccaa ctgagcnctc 60
 tgttgccgtg accatcttcg gtgatcggga caatgcgaag acctggggga cgaaactgna 120
 tgctgaggcc tatgcttgca gcaacatggc tgagcaggag cttgccgatt ggtggcttgc 180
 tcatctatca gagcttcact gttacggccg aancgacctn tgnttcccag ngcaaactc 240
 gnaaattccg ggnaaantaa 260

<210> 442
 <211> 447
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 442

 cgtccctgca cacggcgggtt ttcagactgc gatccattcc gagcttcgag gaatcgatgg 60
 tcnagcttcg gtgactaaga gatcaaaactc ttcaagttct acgaggctga agatcctgag 120
 catctgtttg gtgaagattc ttatgccatg gaaattcatc gattgatacc gtccttttca 180
 tagtcgatca tggttcaagg agattgcatt tgtggatgct ctaatggagt cgaaagggtg 240
 taagaaagtc nnnnnnnnnn nnnnnnnnnnt tcatgtacga agctcccctt ggctacaaga 300
 tcgaggacgt tcgccagcc ggaggaatca agaagttcca gactgctgct tattccaact 360
 gcgtccgcca gccatcctga tatcgctca catgcaattc gcggtagagt aggattttaa 420
 ttcagttttc ctcttgngtc ngnaggt 447

<210> 443
 <211> 192
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 443

 gggctgagac ttcgannacg agccctnttg ctattncatg aatgctgnaa atnanccggg 60
 gttggggana attcatntga gncnagagga cngattnagc tatgcaagct annaggtcat 120

gggctngaac ccgactctt tntgttatgg tgacctgcct aanagggagc tgangngctn 180
 nggtccaaat ga 192

<210> 444
 <211> 376
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 444

caaagctnnt gctcgctatt ccgaggntcc ttgnactngn tgaanagctc cngttgcnac 60
 tcgctgcagt taaanactnn cgtggaacgt ncatattccn tgaagcacan ccnttcnnac 120
 acaagaactt ngntgacgag gttgccttcc tgaatngctt attcngtggn ctnaagtncn 180
 gnngcaatgc ttatgtgant ggtgactctg ccaancccg nagaagtgn cacgtctact 240
 acacnnctga gcaccctgan gagcctgtnn gnactctgga gatgtgcatg actgggctgg 300
 acaagancaa agcttcatgn cntcttcaag accactgnnt gatggttact cgctnatncg 360
 ccaaggatat caccaa 376

<210> 445
 <211> 502
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 445

gtgctagtgg cnangnnntn nngtatnaan gacacactcc ggtncggaat tcccgggtcg 60
 acccacgcgt ccgcggacgc gtgggggttg caaagaattn cctnccctac cgctcgctcnc 120
 gctcgtctgg nngggaagtt ccnggaccen ngatttngcc caattctnag gnaaaaannc 180
 ggtttacntn ncttaaccen gggnnttctn cctntngtng ttgttaaagg ganaaaattn 240
 tnagatctgt tccggatcaa gcgtgcganc tcgggaatca agggttttna cacatatctt 300
 ttccatttga aaattgatnt actaaatggn gtctanaagg tggcaaaaag tctnacaata 360
 gtcgtttctat natgtatgaa gctccccttn gctncagcat tnaggacgtt cgacctgccc 420
 gangcctnaa gaaatttcca gtctnctgct tactncaact tcncnaaaaa accattctga 480
 tatccttttg cttntcaat nt 502

<210> 446
 <211> 160
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 446

agtnngctgca cttaaccgtt nctttggcgg cctgaaatct ggtggnangg gcgggtgtga 60
 tnggagatcc agcaagacct ggncagaagt ggcacttntt nnaacgnan tnantnccna 120
 ttancaacca atggttaacc tanaaatgtg catnactgna 160

<210> 447
 <211> 487
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 447

attacgtccn ctagcccttc gccnncgctc ttttccntna gaggcgccgg caccgangat 60
 ccgggncggg ntcnatntnn agaannngna gtacttgtct cagcccgagg nctgctgcgt 120
 cnggtggtgg tnaaggggag aanntcgtna gatctgntcc ggatcaagcg nncganctcg 180
 ggaatcaggg gtttcacaca tanctgngnc gatcncgaat tctgatgtac taatggagtc 240
 taagggnggc aaaaagtcta gccttacnta cncatnatg catagaagct ccccttggtc 300
 acagcattna cgaccgttcg anctgtceng aggcgtgaaa aagntccnnt acngctgctt 360
 actccaactt gcgcgaaaca ancntcctg aanantcccc ttttggttc ctcattctaa 420
 gcactttaag gaattttaat ntctggacac ttntggantr ttnaccaaen ctentctggg 480
 cctaggg 487

<210> 448
 <211> 438
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 448

gagganntcg ttgagatcta agatagagaa tcgctggggc angngnctgt ggtctgctgc 60
 gtaggggtgt gntgaanggg agaagtttaa gatctgntcc acagatcacg cgtgcgcgct 120

cgcgaaacgg gggttccaca catagcttng tcggtttgaa tttgangtac taatggagtc 180
taaggggtggc aagaantcta gcagnagtcg ttccatgatg natgaagctc cccttggtcta 240
cagcattgaa gacgttcgac ctgcggaag cgccaaagaa gttncagnct tgntgcttaa 300
ctccaactgg cncaaaagaa nccatnctgn aatccccttt ggnttccccg ntctangagn 360
ttaagaattc ttttcttgca ctttnaatct taacnaatcc ccctgggctg angnttttnt 420
gacaaangaa ccaattnc 438

<210> 449

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 449

ctcgattaca aactgtgtac tatgttaatg taatgacata gtttggnatga tacagatcgt 60
agtgatgttg tttgaagctg tttgtatnaa ctgtntccta ctatcttgta tgaattatga 120
tgtctgatgt agtntgtatg aactatgtca tattatgttg aatgaagcta ttgcatgccc 180
ttaaaaaana aaaaccnaag annanaatga tctactccaa ntaacgagnt tatgggcttg 240
gatgccactg ntntgnntta tgggtgacct gtcaagaggg tgctnctggn ctttngccnn 300
tnagagtttt acnttgacct gaccatcttc nncggncgtg gnatgccggg acatnnggna 360
aggnacttgg tgnanaagtc tttnactggn acanctgtt cgaacangac ttntnttnaa 420
gcggnctcc 429

<210> 450

<211> 376

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 450

ccaatatctt tactnccgcc cctgcncgta attccctnct ggcncacgc atcncgctga 60
agacnctntn tntacctcn cccnantntg ttttccactn ctttnaccac gagggngggg 120
nagattgctc ctncnctat caataangac tacaatctgg ctaatcttct ctgctnaaca 180
ngaggaatcc ccatgccatn natnaccaag ncnntagtgc ttgatnanta atacntctt 240

ctaagntcca tntncttctg aattgnntat antatatacct cacantttca tanttntcan 300
tnagttattc tatcaagcat ccaatccatt ctattgtata ttaaaatttn tctctctnta 360
tncatgtcaa cttcct 376

<210> 451
<211> 305
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 451

ggaagttgga tgctatcgag gagaaggatg gagtgcttga tgagtaagac gggtttctgg 60
tgtcgatttg cttctgagtt ttttctntt ttatatcggt gcgatctcgt ggttgctcgtt 120
tggttagcag ccaagccagg ctattagtac gaagaatgtc gtctataaac atgtgttcct 180
acgttgccac atgctgagtc aatctgtata cagctagctc taggtgggtca gctgcgtcta 240
ccacaatgag catacatgta tggataaatc ttctgtgaaa gcattcgatg aataaggggt 300
gtttt 305

<210> 452
<211> 276
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 452

atgcaagcac cttttgcgaa ggactgcaag ctggctaatac ttgtctgctt ggaggaagtt 60
ggatgctatc gaggagaagg atggagtgtc tgatgagtaa gacgggtttc tggctcgatt 120
tgcttctgag ttttttctt tttatatcgt tgcgatctcg tggatgtcgt ttggtttagca 180
gccaagccag gctattagta cgaagaatgt cgctataaac atgtgttcct acgtgccaca 240
tgctgagtca atctgtatac agctantcta ggtggc 276

<210> 453
<211> 501
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<400> 453

gnaagngttt tgaatggggg ntggggngna annnnnnnct ngtagcggtc ggngngtcgn 60

cccacgcnta cgcgcenntg ntagctcggc ccaaaccgt tcttngntgc tttgatggcg 120

agaatgcagc accttttgcg aaggactgca agctggctaa tcttgtctgc ttggaggaag 180

ttggatgcta tcgaggagaa ggatggagtg cttgatgagt aagacgggtt tctgggtgctg 240

atttgcttct gagttttttt ctttttatat cgttgcgata tcgtgggttg tcggtttggt 300

tagcaagcca agccaggcta ttagtaccaa agaatgtcgn ctataaacat gtgttcctac 360

gttgcacatc ctgagtcnaa tctgtattnc agctagctct aaggtaggtc agcttgcgtc 420

taccacaatg agcataccat gtatggataa atcttctgtg aaagcattcg atgaataagg 480

gttgttttca aaaaaaaaaa a 501

<210> 454

<211> 247

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 454

gtgtcgattt gcttctgagt tntcttcttt ttatatcggt gcgatctcgt ggttgtcggt 60

tggttagcag ccaagccagg ctattagtag gaagaatgct gtctataaac atgtgttcct 120

acgttgccac atgctgagtc aatctgtata cagctagctc taggtgggtca gctgcgtcta 180

ccacaatgag catacatgta tggtaaactt tctgtgaaag catcgntgaa taaggtngtt 240

tcgtntt 247

<210> 455

<211> 185

<212> DNA

<213> Zea mays

<400> 455

gttttggttaa gcagccaagc caggctatta gtacgaagaa tgtcgtctat aaacatgtgt 60

tcctacgttg ccacatgctg agtcaatctg tatacagcta gctctaggtg gtcagctgcg 120

tctaccacaa tgagcataca tgtatggata aatcttctgt gaaagcattc gatgaataag 180

ggttg 185

<210> 456
 <211> 148
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 456

 gtcgtctata aacatgtgtn cctacgttgc cacatgctga gtcaatctgt atacagctag 60
 ctctaggtgg tcagctgcgt ctaccacaat gagcatacat gtatggataa atcttctgtg 120
 aaagcattcg atgaataagg gttgtttt 148

<210> 457
 <211> 109
 <212> DNA
 <213> Zea mays

 <400> 457

 ctgtatacag ctagctctag gtggtcagct gcgtctacca caatgagcat acatgtatgg 60
 ataaatcttc tgtgaaagca ttcgatgaat aagggttgtt ttcgtgatt 109

<210> 458
 <211> 249
 <212> DNA
 <213> Zea mays

 <400> 458

 cttcgggcct gcagcctcca ccatccacgt gacacccgag gaaggtttca gctacgcaag 60
 ctacgaagct atgaacttcg accccagctc actgggtctac agcgatgtga tcaggagggt 120
 cctggcaggc ttctctcctt cggacttctc ggtcgcagtt accatctttg gtggccgtgg 180
 gttcgccaaa tcatgggcga cgggtgcaga catcgattcc tacatgtgcg gtgatcctgt 240
 agagcaaga 249

<210> 459
 <211> 338
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 459

cgaantatga acttcgaccc cagctcactg gtctacagcg atgtgatcag gagggtcctg 60
gcaggcttct ctccttcgga cttctcggtc gcagttacca tctttggtgg ccgtgggggtt 120
cgccaaatca tgggcgacgg gtgcagacat cgattcctac atgtgcggtg atcctgtaga 180
gcaagagctt cctggtggcg gtctgctgat gtaccagagc tttactgctg ttccctctgg 240
ctctgtatcg ccgaggtcga ccttgagac ggatggctgg agcagcgatg gaatggagat 300
ggcctcaaat gacgagatgt gtattggctg ctggaatg 338

<210> 460
<211> 165
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 460

cggncttctc ggtcgcagtt accatctttg gtggccgtgg gttcgccaaa tcatgggcca 60
cgggtgcaga catcgattcc tacatgtgcg gtgatcctgt agagcaagag cttcctggtg 120
gcggtctgct gatgtaccag agctttactg ctgttccctc tggct 165

<210> 461
<211> 293
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 461

agccgcccta cctattcctt ctcccagccg tcgagctgcc caaccagag caccagcagc 60
cctcaccttc ttcctctcgg ccggtccttc aaacgagccc gctcgtcttg gagccgccgc 120
cgggtctcgtt ctggacgaac gttcaaggag attgcatttg tggatgctct aatggagtcg 180
aaaggtggca agaagtcnnn nnnnnnnnnn nnnnnnttca tgtacgaagc tccccttggc 240
tacaagatcg aggacgttcg cccagccgga ngaatcaaga agttccagac tgc 293

<210> 462
<211> 289
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<400> 462

gacctattcc ttctcccagc cgtcgagctg cccaacccag agcaccagca gccctacacc 60

ttcttctctt acggccggtc cttcaaacga gcccgctcgt acttgagacc gccgccggtg 120

ctcgttcttg acgaacgttc aaggagattg catttggtga tgctctaata gagtcgaaag 180

gtggcaagaa gtcnnnnnnn nnnnnnnnnn nnttcatgta cgaagctccc cttggctaca 240

agatcgagga cgttcgccc gccggagaat caagcagttc cgactgatg 289

<210> 463

<211> 264

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 463

attccttctc ccagccgtcg agctgcccac cccagagcac cagcagccct caccttcttc 60

ctctcgcccg gtccttcaaa cgagcccgtc cgtcttgag ccgcccggg tctcgttctg 120

gacgaacgtt caaggagatt gcatttggtg atgctctaata ggagtcgaaa ggtggcaaga 180

agtcnnnnnn nnnnnnnnnn nnttcatgt acgaagctcc cttggctac aagatcgagg 240

acgttcgccc agccggagga atca 264

<210> 464

<211> 571

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 464

gnnatagtat aangaaaggn gnagnatntn ntatacnngt ccggaattcc cgggtcgacc 60

cacgcgtccg gtccggtggc aatgcttatg tgattggtga ctctgcgaag cccgggcaga 120

agtggcacgt ntactacgcc gctgagcacc ctgaggagcc tgctgttact ctggagatgt 180

gcatgactgg gctggacaag aagaaagctt ctgtcttctt caagaccact gctgatggtt 240

actcgctgtg cgccaaggag atgaccaagc tctctggtat ctccgacatc atcccagaga 300

tggagatctg tgacttcgac ttcgagccct gtggctactc catgaatgct gttcatggcc 360

ctgctttgtc gaccattcat gtgaccccag aggacggctt cagctatgca agctacgagg 420

tcatgggctt naaccgggc tctttctctt atgngacct ggttaaaaag ggtctnaagt 480
nctttgttca actgaattct ntgggtgccgt gaccatnttn gngaannnga caaatgcnaa 540
aaccttgggg accaaactgg attcttaagg c 571

<210> 465
<211> 522
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 465

agagggctcg nngtngana gngnnnnnag gnantttttg naattccgaa ttcccggttn 60
gaccacgcg tccgctnatg tcttatctga gtcgagcctg tttgtctacc cgtacaagat 120
tgtgatcaag nggtgtggaa gtacaaagct tctgctcgct attccgagga tccttgaact 180
tgctgaagag ctctgtgtgc cactcgctgc agttaataac tcccggtgaa cgttcatatt 240
ccctgaagca caacctccc cacacaagaa ctctcgctgac gaggttgctt tcctgaatcg 300
cttcttcggt ggctcaagt ccggtggcaa tgcttatgtg attggtgact ctgcgaagcc 360
cgggcagaag tggcacgtct actacgccgc tgagcaccct gaggagcctg ttgttactct 420
agagatgtgc atgactgggc tggacaagaa gaaagcttct gtcttcttca agaccactgc 480
tgatggttac tcgctgtgcg ccaaggagat gaccaactct ct 522

<210> 466
<211> 515
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 466

gagnttgntt cnacgnaggg gggatntaac ggaaangctt gtaccggtcc ggaattcccg 60
ggtcgacca cgcgtccgat tccctgaagc acagccttcc ccacacaaga acttcgctga 120
cgagggtgcc tncctgaatc gcttcttcgg tggcctcaag tccggtggca atgcttatgt 180
gattggtgac tctgcgaagc ccgggcagaa gtggcacgtc tactacgccg ctgagcacc 240
tgaggagcct gttgttactc tagagatgtg catgactggg ctggacaaga agaaagcttc 300
tgtcttcttc aagaccactg ctgatggtta ctgctgtgc gccaaaggaga tgaccaagct 360

ctctggtatc tcggacatca tcccagagat ggagatctgt gacttcgact tcgagccctg 420
 tggctactcc atgaatgctg gtcatggcct gcttggcgac cattcatgtg accccaanag 480
 gacggttttag ctttgcaagc tacnaggcat ggctt 515

<210> 467
 <211> 531
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 467

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 ccangcgtcc ggtcttcctc ccgtggcctg tctgtcatct ggctctgaaa cgatggcagt 120
 cctgcaagtt gctgctggtg cccctcccc tgtctctgtg attgggttcg agggatttga 180
 gaagcgcctt gagatcagct tctctgaggc acctgtcttg gctgacccca gcggaagggg 240
 actgctgctg ctctcgcgtg cccagatcga ctctgttctt gaccttgctc ggtgcaccat 300
 tgtgtccgag ctctcaaacg aggacttcga ctcttatgtc ttatctgagt cgagcctgtt 360
 tgtctacca tacaagattg tgatcaagac ctgtggaact acaaagcttc tgctcgctat 420
 tccgaggatc cttgaacttg ctgaagagct cctgttgcca ctgctgcaa gttaaatact 480
 cccgtggaac gttcatattc cctgaagcac aaccttccca cacaagaact t 531

<210> 468
 <211> 463
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 468

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 cagtcttgca agttgctgct gctgcccctc cccctgtctc tgtgattggg ttcgagggat 120
 ttgagaagcg ccttgagatc agcttctctg aggcacctgt cttggctgac cccagcggaa 180
 ggggactgctg tgcgtctctg cgtgcccaga tcgactctgt tcttgacctt gctcggtgca 240
 ccattgtgtc cgagctctna aacgaggact tcgactctta tgtcttatct gactcgagcc 300
 tgtttgtcta ccatacaag attgtgatca agacctgtgg aactacaaag cttctgctcg 360

ctattcccga ggatccttga acttgctgaa gagctcctgt tgccactcgc tgcagttaaa 420
tacttccgtg gaacgggtcat attcctgaac acaagccttc cca 463

<210> 469
<211> 474
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 469

ggnnnnnnng naaactttat ccgncagnta ccggtcaaag aantcccggg tcgacccacc 60
gtccgcccac gcgtccgccc acgcgtccgc tgatggttac tcgctgtgcg ccaaggagtg 120
accaagctct ctggtatctc ggacatcatc ccagagatgg agatctgtga cttcgactcg 180
agccctgtgg ctactccatg aatgctgttc atggccctgc tttgtcgacc attcattgac 240
cccagaggac ggcttcagct atgcaagcta cgagggtcatg ggctttaacc cgggcctttc 300
tcttatggtg acctgggttaa gaggggtgctg aggtgctttg gtccaactga gtttctgttg 360
ccgtgaccat cttcgggtgat cgggacaatg cgaagacctg ggggacgaaa ctgatgctga 420
ggcctatgct tgcaagcaac atggttgagc aagtgtgcc gtttggtggc ttcc 474

<210> 470
<211> 304
<212> DNA
<213> Zea mays

<400> 470

ctgtcttctt caagaccact gctgatggtt actcgctgtg cgccaaggag atgaccaagc 60
tctctggtat ctcgacatc atcccagaga tggagatctg tgacttcgac ttcgagccct 120
gtggctactc catgaatgct gttcatggcc ctgctttgtc gaccattcat gtgaccccag 180
aggacggctt cagctatgca agctacgagg tcatgggctt taaccgggc tctttctctt 240
atggtgacct ggttaagagg gtgctgaggt gctttggtcc aactgagttc tctgttgccg 300
tgac 304

<210> 471
<211> 450
<212> DNA
<213> Zea mays

<223> unsure at all n locations
 <400> 471

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ctgtgacttc gacttcgagc cctgtggcta ctccatgaat gctgttcatt gccctgcttt   60
gtcgaccatt catgtgaccc cagaggacgg cttcagctat gcaagctacg aggtcatggg   120
cttcaaccgg ggctctttct cttatggtga cctgggtaag aggggtgctga ggtgctttgg   180
tccaactgag ttctctgttg ccgtgacat cttcggatg cgggacaatg cgaagacctg   240
ggggacgaaa ctggatgctg aggcctatgc ttgcagcaac atgggtgagc aggtgctgcc   300
gtttggtggc ttgctcatct atcagaagct tnactgttac gggccgaaac gaacccatgg   360
gtcgccgaag gtcaagtcct gcatgaactt cgctggtgac attgtcaaga aatngnttaa   420
aagagtgatg ctccctggga agctgatctg                                     450

```

<210> 472
 <211> 302
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 472

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gtcttggtg accccagcng aaggggactg cgtgcgctct cgcgtgccca gatcgactct   60
gttcttgacc ttgctcgggt caccattgtg tccgagctct caaacgagga cttcgactct   120
tatgtcttat ctgagtcgag cctgtttgtc taccataca agattgtgat caagacctgt   180
ggaactacaa agcttctgct cgctattccg aggatccttg aacttgctga agagctcctg   240
ttgccactcg ctgcagttan atactcccgt ggaacgttca tattccctga agcacagcct   300
tc                                                                 302

```

<210> 473
 <211> 489
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 473

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gggnnnnnnaa nttatccgnc aggcaccggt caagaattcc cgggncgacc cacgcgtccg   60
cggacgcgtg gggatctgtg acttcgactt cgagccctgt ggctactcca tgaatgcttt   120

```

catggccctg ctttgtcgac cattcatgtg accccagagg acggcttcag ctatgcagct 180
acgaggtcat gggcttcaac ccgggtcttt tctcttatgg tgacctggtt aagaggtgct 240
gaggtgcttt ggtccaactg agttctctgt caccgtgacc atcttcggtg atcggacaat 300
gcgaagacct gggggacgaa actggatgct gaggcctatg cttgcagcaa catgttgagc 360
aggtgctgcc gtttggtggc ttgctcatct atcaaaagct tcaactgttaa cggcgaaacg 420
aaccaagggt ccccgangtc aagtcctgca tgaacttccc cnggtgacaa tttcaanaat 480
ccncncaaa 489

<210> 474

<211> 446

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 474

aaagatatca aagaccactt cccgtcttcc tcccgtggct gtctgtcatc tggtcttgaa 60
acgatggcag tcctgcaagt tgctgctgct gccctcccc ctgtctctgt gattgggttc 120
gagggatttg agaagcgctt tgagatcagc ttctctgagg cacctgtctt ggctgacccc 180
agcggaaggg gactgctgct gctctcgctt gccagatcg actctgttct tgaccttgct 240
cgggtgcacca ttgtgtccga gctctcaaac gaggacttcg actcttatgt cttatctgag 300
tcgagcctgt ttgtctaccc atacaagatt gtgatcaaga cctgtggaac tacaagctt 360
ctgctcgcta ttccgaggat cttgaacttg ctgaaaaact cctggtgcca ctgctgcaa 420
gttaaatact nccgtggaac gttcat 446

<210> 475

<211> 294

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 475

tcggtgcacc attgtgtccg agctctcaaa cgaggacttc gactcttatg tcttatctga 60
gtcgagcctg tttgtctacc catacaagat tgtgatcaag acctgtggaa cnacaaagct 120
tctgctcgct attccgagga tccttgaact tgctgaagag ctctgttgc cactcgctgc 180

agttaaatac tcccgtggaa cgttcatatt ccctgaagca cagccttccc cacacaagaa 240
 ctctcgtgac gaggttgcct tcctgaatcg cttcttcggt ggctcaagt ccgg 294

<210> 476
 <211> 314
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 476

ctctagagat gtgcatgact gggctggaca agaagaaagc ttctgtcttc ttcaagacca 60
 ntgcngatgg ttannnnngnn gtgcgcnaag gngatgacca agctctctgg tatctcggac 120
 atcatcccag agatggagat ctgtgacttc gacttcgagc cctgtggcta ctccatgaat 180
 gctgttcatg gccctgcttt gtcgaccatt catgtgaccc cagaggacgg cttcagctat 240
 gcaagctacg aggtcatggg ctttaacccg ggctctttct cttatggtga ctggttaaga 300
 ggggtgctgag gtgt 314

<210> 477
 <211> 309
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 477

cgcatgcacg cgtacgtaag ctcggaattc ggctcgaggg tcagccaaga caggtgcccc 60
 gatcgactct gttcttgacc ttgctcgggtg caccattgtg tccgagctct caaatgacga 120
 ctttgactct tatgtcttat ctgagtcgag cctgtttgtc taccgtaca agattgtgat 180
 caagacctgt ggaactacaa agcttctgct cgctattccg agnatccttg aacttgctga 240
 agagctcctg ttgccactcg ctgcagttaa atactcccgt ggaacgttca tattccctga 300
 agcacaacc 309

<210> 478
 <211> 245
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 478

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 tgtgcgccaa ggagatgacc aagctctctg gtatctcgga catcatccca gagatggaga 120
 tctgtgactt cgacttcgag ccctgtggct actccatgaa tgctgttcat ggccctgctt 180
 tgtcgaccat tcatgtgacc ccagaggacg gcttcagcta tgcaagctac gaggtcatgg 240
 gcttt 245

<210> 479

<211> 592

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 479

tnnaatnatt tngnntgagt gtatatgnng tgtngagana ttnaaacccn cnngaattcc 60
 cgggtcgacc cacgctccg gtcaggcgnc aatgctnatg tgattgggga ntctgcnaag 120
 cccggtcaga agtggcacgt gtactaggcc gctnagcacc ntgaggagcc tgctggttact 180
 ctggagatgt gcatgactgg gctggacaag aagaaaagctt ctgtattggt caagaccact 240
 gctgatgggt actngctgtg cgccaaggag atgaccaagc tctctggtat ntnggacatc 300
 attccagaga tggagatctg tgacttcnac ttngagccct gtgggctact nnatgaatgc 360
 tggtcatggc cctgnttttg tcgaccattc atgtgacccc aaaaggacgg nttttaactn 420
 ntgcaagcta cgaggttatg ggctttaaac ccnggncttt tttnnnatgg gggacctnng 480
 taaaaagggg tgctgaagtt ncttttggtc caactgaatt nntntgttgn ctgagacnat 540
 ttnnngtgat cgggacnant tcgantaact tnggggncna aaacttagtg nt 592

<210> 480

<211> 260

<212> DNA

<213> Zea mays

<400> 480

ccactcgtg cagttaaata ctcccgtaga acgttcatat tccctgaagc acagccttcc 60
 ccacacaaga acttcgctga cgaggttgcc ttctgaatc gcttcttcgg tggcctcaag 120
 tccggtggca atgcttatgt gattggtgac tctgcgaacc cgggcagaag tggcacgtct 180

actacgccgc tgagcaccct gaggagcctg ttgttactct agagatgtgc atgactgggc 240
 tggacaagaa gaaagcttct 260

<210> 481
 <211> 249
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 481

ttccctgaag cacagccttc cccacacaag aacttcgctg acgaggttgc nttcctgaat 60
 cgcttcttcg gtggcctcaa gtccggtggc aatgcttatg tgattggtga ctctgcgaac 120
 ccgggcagaa gtggcacgtc tactacgccg ctgagcaccg tgaggagcct gttgttactc 180
 tagagatgtg catgactggg ctggacaaga agaaagcttc tgtcttcttc aagaccactg 240
 ctgatgggtt 249

<210> 482
 <211> 258
 <212> DNA
 <213> Zea mays

<400> 482

gagatctgtg acttcgactt cgagccctgt ggctactcca tgaatgctgt tcatggccct 60
 gctttgtcga ccattcatgt gaccccagag gacggcttca gctatgcaag ctacgaggtc 120
 atgggcttta acccgggctc tttctcttat ggtgacctgg ttaagagggg gctgaggtgc 180
 tttggtccaa ctgagttctc tgttgccgtg accatcttcg gtgatcggga caatgcgaag 240
 acctggggga cgaaactg 258

<210> 483
 <211> 198
 <212> DNA
 <213> Zea mays

<400> 483

gctgtgcgcc aaggagatga ccaagctctc tggtatctcg gacatcatcc cagagatgga 60
 gatctgtgac ttgcacttcg agccctgtgg ctactccatg aatgctgttc atggccctgc 120
 tttgtcgacc attcatgtga cccagagga cggcttcagc tatgcaagct acgaggtcat 180

gggcttcaac ccgggctc

198

<210> 484
<211> 246
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 484

ttcatgtgac cccagaggac ggcttcagct atgcaagcta cgaggatcatg ggctttancc 60
cgggctcttt ctcttatggt gacctgggta agaggggtgct gaggtgcttt ggtccaactg 120
agttctctgt tgccgtgacc atcttcgggtg atcgggacaa tgcgaagacc tggggggacga 180
aactggatgc tgaggcctat gcttgcagca acatgggtga gcagggtgctg ccgtttggng 240
gcttgc 246

<210> 485
<211> 302
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 485

ctaccatac aagattgtga tcaagaccng tggaacnaca aagcttctgc tcgctatncc 60
gaggatcctt gaacttgctg aagagctcct gtngccacna cgctgcagtn aaatacnccc 120
cgtggaacgt tcatattccc tgaagcacag ccttccccac acaagaactt cgctgacgag 180
gttgccttcc tgaatcgctt cttcgngggc ctcaagtcgg gnggcaatgc ttatgtgatt 240
ggngacnctg cgaacccggg cagaagtngc agtctanacg ccgctgagca cnctgaggag 300
cc 302

<210> 486
<211> 524
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 486

gngggggng caattctnct nttcgtgccg tccattaatc aagggnccnc ccacgcgtcc 60

gaanccctga aagcacagcc ttccccacac aagaacttcg ctgacgaggt tgccttcctg 120
 aatccgcttc ttcggtggcc tcaagtccgg tggcantgct tatgtgattg gtgactctgc 180
 gaagcccggg cagaagtggc acgtctacta cgccgctgaa gcaccctgag gagcctgttg 240
 ttactctaag agatgtgcat gactgggctg gacaagaaga aagcttctgt cttcttcaag 300
 accaactgct gatggttact cgctgggtgcg ccaaggagat gaccaaagct ctctgggtatc 360
 tcgggacatc atcccaagag atggagatct gtgactcgac ttcgaagccc tgtggctact 420
 ccatgaatgc tgttcaatgg ccctgctttt gtcgaancat tcatgtganc ccaagaggga 480
 cggctttcag ctattccaag cttacnaagg tcatgggctt taac 524

<210> 487

<211> 178

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 487

aagctctctg gtatctcgga catcatccca gagatggaga tctgtgactt cgacttcnag 60
 ccctgtggct actccatgaa tgctgttcat ggccctgatt tgctgaccat tcatgtgacc 120
 ccagaggang gcttcagcta tgcaagcnac gaggtcatgg gctttaacnn gggctctt 178

<210> 488

<211> 238

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 488

cttcagctat gcaagctacg aggtcatggg ctttaacccg ggctctttct cttatgggtga 60
 cctgggttaag aggggtgctga ggtgcttttg tccaactgag ttctctgttg ccgtgaccat 120
 cttcggtgat cgggacaatg cgaagacctg ggggacgaaa ctggatgctg aggcctatgc 180
 ttgcagcaaa atgggttaaac agttctgccg ttgggggntt cccacannaa aanaactt 238

<210> 489

<211> 304

<212> DNA

<213> Zea mays

<400> 489

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agaaaccacc tgcattttca ttttgatctc cctaatacct ccggctagct gctttccagt 60
gacaaaaaga tatcaaagac cacttcccgt cttcctcccg tggctgtctg tcatctggct 120
ctgaaacgat ggcagtcctg caagttgctg ctgctgcccc tccccctgtc tctgtgattg 180
ggttcgaggg atttgagaag cgccttgaga tcagcttctc tgaggcacct gtcttgggctg 240
accccgagcg aaggggactg cgtgcgctct cgcgtagcca gatcgactct gttcttgacc 300
ttgc 304
```

<210> 490

<211> 229

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 490

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gaagacggga agtggctctt gatattcttt ggtcactgga acgatggcag tcctgcaagt 60
tgctgtgtgt gccctcccc ctgtctctgt gattgggttc gagggatttg agaagcgctt 120
tgagatcagc ttctctgagg cacctgtctt ggctgacccc agcggaaggg gactgcgtgc 180
gctctcgctg gccagatcg actctgttct tnaactgtct ggtgcacca 229
```

<210> 491

<211> 290

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 491

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gctgaggtgc tttggtccaa ctgagttctc tgttgccgtg accatcttcg gtgatcgagg 60
caatgcgaag acctggggga cganaactgg atgctgaggc ctatgcttgc agcaacatgg 120
ttgagcaggt gctgccgttt ggtggcttgc tcatttatca gagcttcact gttacggccg 180
aaacgaccca tgggtcgccg aggtcagtc tgcattgact cgctgggtgac attgtcaaga 240
atcgctcaga gagtgatgct ccctgggaag ctgatgctgt ggatgcggng 290
```

<210> 492

<211> 289

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 492

tgactcttat gtcttatctg agtcgagcct gtttgtctac ccgtacaaga ttgtgatcaa 60

gacctgtgga actacaaagc tatctgctcg ctattccgag gatccttgaa cttggctgaa 120

gagctcctgt tgccactcgc tgcagttaaa tactcccgctg gaacgttcat attccctgaa 180

gcacaacctt cccaacaca agaacttcgc tgacgagggt tgccntnctg aatcgcntct 240

cggtgggctc aangtcggtg ggaaaagctan tgtgattgtn anncngcga 289

<210> 493

<211> 318

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 493

gctgagggtgc tttgggtccaa ctgagttctc tgttgccgtg accatcttcg gtgatcggga 60

caatgcgaag acctggggga cgaaactgga tgctgaggnc tatgcttgca gcaanctggt 120

tgagcagggtg ctgccgtttg gtggcttgct catctatcag agcttcactg ttacggccga 180

aacgacccat gggtcgccga ggtcagtcct gcatgacttc gctggtgaca ttgtcaagaa 240

tcgctcagag agtgatgctc cctgggaagc tgatgctgtg gatgagagcg aggaaagaga 300

tgtaaagaag atgnaatg 318

<210> 494

<211> 310

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 494

gtcgtcatcc ccatactagt agcgtagaaa ccacctgcat tttcattttg atctcnctaa 60

tacctccggg tagctgcttt ccagtgacca aaagatatca aagaccactt cccgtcttcc 120

tcccgtggct gtctgtcatc tggctctgaa acgatggcag tcctgcaa at tgctgctgct 180

gccccctccc ctgtctctgt gattgggttc gagggatttg agaagcgcct tgagatcagc 240

ttctctgagg cactgtcttg ggctgacccc agcgggaagg actgcgtgcg ctctcgcgtg 300

cccagatcga 310

<210> 495
 <211> 137
 <212> DNA
 <213> Zea mays

<400> 495

atgggcttca acccgggctc tttctcttat ggtgacctgg ttaagagggt gctgaggtgc 60
 tttggtccaa ctgagttctc tgtcaccgtg accatcttcg gtgatcggga caatgcgaag 120
 acctggggga cgaaact 137

<210> 496
 <211> 111
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 496

gctgaggtnc tttggtccaa ctgagttctc tgttgccgtg caccatcttc ggtnatcggg 60
 acaatgcgaa gacctggggg acnnaactgg atgctgaggc ctatncttag c 111

<210> 497
 <211> 302
 <212> DNA
 <213> Zea mays

<400> 497

gtgggcggtt aggggttgga gatctcttga ctcacgacac gagcagcaga attcgtcgag 60
 ggccgctggg tgctgcgaga ggtccggggc ttcgtgggat cttgaaaatt gaatgttcta 120
 atggagtcca aggggtggcaa gaagaagtct agcagtagtc gttcctccct gatgtacgaa 180
 gctccccctt gctacagcat cgaggatatc cgccctgcag gcggcatcaa gaagttctcc 240
 gctgcttact cgaactgcgc gaggaagcca tctgatatc tctgtcgtca tccccatcct 300
 ag 302

<210> 498
 <211> 501
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 498

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ttnacgcttt ccacgtgccc aggcangaat taacgggtcg anccacgcgt cngatttcnc 60
tagcaccgaa gagaaatata tgccgcccgc tcctcctcat tcggtgaaag gtgggcggtt 120
agggttggga agatctcttg actcacgaca cgagcagcag aattcgtcga gggccgctgg 180
ttgctgcgag aggtccgggc ctctcggtgga tcttgaaaat tgaatgttct aatggagtcc 240
aagggtggca agaagaagtc tagcagtagt cgttcctccc tgatgtacga agctcccctt 300
ggctacagca tcgaggatat ccgccctgca ggccggcatca agaagttctc cgctgcttac 360
tcnaactgcn cgaggaagcc atcctgatat ctctgtcgtc atcccatcc taatagccgt 420
naaaaccanc tggaatttca atttgatctn cccaaaatcc ctcgggtnnc cggctttcca 480
gtgaccanag ngatatcaaa g 501
```

<210> 499

<211> 284

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 499

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ctcgaactgc gcgaggaagc catcctgata tctctgtcgt catcccatc ctagtagcgt 60
agaaaccncc tgcattttca ttttgatctc cctaattctt ccggctagct gctttccagt 120
gaccaaaga tatcagagac cacctcccgt ggctgtctgc catctggctc tgaaacgatg 180
gcagtccctac aagctgtctc cctccccct gtctctgtga ttggattcga gggatttgag 240
aagcgcttg agatcagctt ctctgaggca cctgtcttgg ctga 284
```

<210> 500

<211> 166

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 500

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caagaagaag tctagcagta gtcgttcctc cctgatgtac gaagctcccc ttggctacag 60
catcgaggat atccgccctg caggcgccat caagaagttc tccgctgctt acncgaacng 120
```

cgcgaggaag ccacccgat atctctgtcg tcaccccat cctagt

166

<210> 501
<211> 440
<212> DNA
<213> Zea mays

<400> 501

gagatctctt gcctcacgac acgagcagca gaatttgtcg agggccggtg gttgctgcga 60
gaggtccggg ccttcgtggg atcttgaaaa ttgaatgttc taatggagtc caaggggtggc 120
aagaagaagt ctagcagtag tcgttcctcc ctgatgtacg aagctccctt tggctacagc 180
atcgaggata tccgcctgca ggcggcatca agaagttctc cgctgcttac tcgaactgcg 240
cgaggaagcc atcctgatat ctctgttgtc atcccatcc taatagccgt agaaaccacc 300
tgcattttca ttttgatctc ctaatccctt cggctagctg cttttcaagt gaccaaaga 360
tatcaaaaga ccactttccc gtctttcttc ccgtggcctg tctgcatctt ggctctgaaa 420
cgatggcagt cctgcaaggt 440

<210> 502
<211> 300
<212> DNA
<213> Zea mays

<400> 502

gaagaagtct agcagtagtc gttcctccct gatgtacgaa gctccccttg gctacagcat 60
cgaggatata cgccctgcag gcggcatcaa gaagttctcc gctgcttact cgaactgcgc 120
gaggaaagcca tcctgatata tctgtcgtca tccccatcct agtagcgtag aaacctctg 180
cattttcatt ttgatctccc taatctctcc ggctagctgc tttccagtga ccaaagata 240
tcagagacca cctcccgtag ctgtctgcca tctggctctg aaacgatggc agtcctacaa 300

<210> 503
<211> 283
<212> DNA
<213> Zea mays

<400> 503

ccccatccta gtacgtaga aacctctgc attttcattt tgatctccct aatctctccg 60

gctagctgct ttccagtgac caaaagatat cagagaccac ctcccgtggc tgtctgccat 120
 ctggctctga aacgatggca gtcctacaag ctgctgcccc tccccctgtc tctgtgattg 180
 gattcgaggg atttgagaag cgccttgaga tcagcttctc tgaggcacct gtcttggctg 240
 accccagcgg aaggggactg cgtgcgctct cgcgtgccca gat 283

<210> 504
 <211> 300
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 504

cgatctcttc ggtgctagag aaatataggc cgccgcctcc tcctcattcg gtgaaaggtg 60
 ggcggttagg gttgggagat ctcttgactc acgacacgag cagcagaatt cgtcgagggc 120
 cgctggttgc tgcgagangt ccgggccttc gtgggatctt gaaaattgaa tgttctaattg 180
 gagtccaagg gtggcaagaa gaagtctagc agtagtcgtt cctccctgat gtacgaagct 240
 ccccttggct acagcatcga ggatatccgc cctgcangcg gcatcaagaa gttctccgct 300

<210> 505
 <211> 313
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 505

atcgattccc cccgcatctg atctcttcgg tgctagagaa atataggccg ccgccgcctc 60
 ctcccttgttc ggtgaaaggt gggcagttag ggttgggaga tctcttgact cacgacacga 120
 gcagcagaat tcgtcgaggg ccgctggttg ctgcgagang tccgggcctt cgtgggatct 180
 tgaaaattga atgttctaatt ggagtccaag ggtggcaaga agaagtctag cagtagtcgt 240
 tcctccctga tgtacgaagc tccccttggc tacagcatcg aggatatccg ccctgcaggc 300
 ggcatcaaga att 313

<210> 506
 <211> 283
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 506

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agatntcntc ggtgctagag aaatataggc cgccgcctcc tcctcattcg gtgaaaggtg   60
ggcggttagg gntgggagat ctcttgactc acgacacgag cagcagaatt cgtcgagggc  120
cgctggttgc tgcgagangt ccgggccttc gtgggatctt gaaaattgaa tgttctaattg  180
gagtccaagg gtggcaagaa gaagtctagc agtagtcggt cctccctgat gtacgaagct  240
ccccttggct acagcatcga ggatatecgc cctgcaggcg gca                      283

```

<210> 507
 <211> 304
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 507

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gaaatcgatt ccccgcatc cgatctcttc ggtgctagag aaatataggc cgccgcctcc   60
tcctcattcg gtgaaaggng ggcggttagg gttgggagat ctcttgactc acgacacgag  120
cagcagaatt cgtcgagggc cgctggttgc tgcgagaggt ccgggccttc gtgggatctt  180
gaaaattgaa tgttctaattg gagtccaagg gtggcaagaa gaagtctagc agtagtcggt  240
cctccctgat gtacgaagct ccccttggct acagcatcga ggatatccgc cctgcaggcg  300
gcat                                                                304

```

<210> 508
 <211> 439
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 508

```

gaaatcgatt cccccagcat ctgatctctt cggtgctaga gaaatatagg ccgccgccgc   60
ctcctcctca ttcggtgaaa ggtgcgcagt taggggtggg agatctcttg cctcacgaca  120
cgagcagcag aatttgctga gggccgctgg ttgctgcgag aggtccgggc cttcgtggga  180
tcttgaaaat tgaatgttct aatggagtcc aagggtggca agaagaagtc tagcagtagt  240
cgttcctccc tgatgtacga agctccccct ggctacagca tcgaggatat ccgcctgcag  300

```

gcggcatcaa gaagttctcc gctgcttact cgaactgcg caggaaacca tntgatatc 360
tctggtgnca ttccattct aatagccgta gaaaccacct gnattttcaa tttgaacttc 420
ccttttaaaa atccttccg 439

<210> 509
<211> 453
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 509

cgctggttc gttaggaaag gaaatgggat tccccagca tctgatctct tcggtgctag 60
agaaatatan gccggcgcgc cctnctactc attcggtgaa aggtgcgcag ttagggttgg 120
gagatctctt gcctcacgac acgagcagca gaatttgctg agggccgntg gttgctgcga 180
gaggtccngg ccttcgtggg atcttgaaaa ttgaatgttc taatggagtc caagggttgc 240
aangaaagaa atctagcagt agtcgttcct tcctgatgta cgaaacttcc nttggctnca 300
acatcgagga tattcgccct tgaagcngca ttaaanantt nttnntngt tactnnaant 360
ttnccangaa accattctta aatnctttgt ngnattccca tcctaatacg tttnaaacan 420
ctgaatttca attgacttct naaaanctag ggt 453

<210> 510
<211> 261
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 510

ccgatctctt cggtgctaga gaaatatagg ccgccgcctc ctctcattc ggtnaaaggt 60
gggcggttag ggttgggaga tctcttgact cagcacacga gcagcagaat tcgtcgaggg 120
ccgctggttg ctgcgagang tccgggcctt cgtgggatct tgaaaattga atgttctaata 180
ggagtcenag ggtggcaaga agaagtctag cagtagtcgt tcctcctgat gtacgaagct 240
ccccttggtt acagcatcga g 261

<210> 511
<211> 190
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 511

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ccgccctgca ggcggcatca agaagttctc cgctgcttac tcgaactgcg cgaggagacc 60
atcctgatat ctctgtcgtc atcccatcc tagtagcgta gaaacctcct gcattttcat 120
tttgatcncc ctaatctctc cggtagctg ctttccagt accaaaagat atcagagacc 180
acctcccgctg 190
```

<210> 512

<211> 307

<212> DNA

<213> Zea mays

<400> 512

```
cgcggtggttc gttaggaaag gaaatcgatt ccccccgcac ctgatctctt cggtgctaga 60
gaaatatagg ccgccgccgc ctctccttg ttcggtgaaa ggtgggcagt tagggttggg 120
agatctcttg actcacgaca cgagcagcag aattcgctga gggccgctgg ttgctgcgag 180
aggtccgggc cttcgtggga tcttgaaaat gaatgttcta atggagtcca aggggtggcaa 240
gaagaagtct agcagtagtc gttcctccct gatgtacgaa gctccccttg gctacagcat 300
cgaggat 307
```

<210> 513

<211> 307

<212> DNA

<213> Zea mays

<400> 513

```
gaaatcgatt ccccccgcac ctgatctctt cggtgctaga gaaatatagg ccgccgccgc 60
ctctccttg ttcggtgaaa ggtgggcagt tagggttggg agatctcttg actcacgaca 120
cgagcagcag aattcgctga gggccgctgg ttgctgcgag aggtccgggc cttcgtggga 180
tcttgaaaat tgaatgttct aatggagtcc aagggtggca agaagaagtc tagcagtagt 240
cgttcctccc tgatgtacga agctcccctt ggctacagca tcgaggatat ccgccctgca 300
gcggcat 307
```

<210> 514
 <211> 274
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 514

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 ctcttgcaatt ncggtgaaag gtgggcgggtt aggggttgga gatctcttga ctcacgacac 120
 gagcagcaga attcgctcgag ggccgntgggt tgctgcgaga ggtccggggcc ttcgtgggat 180
 cttgaaaatt gaatgttcta atggagtcca aggggtggcaa gaagaagtct agcagtagtc 240
 gttcctccct gatgtacgaa gtccccctggc taca 274

<210> 515
 <211> 290
 <212> DNA
 <213> Zea mays

 <400> 515

 aaatcgattc ccccgcatcc gatctcttcg gtgctagaga aatataggcc gccgcctcct 60
 cctcattcgg tgaaagggtgg gcggttaggg ttgggagatc tcttgactca cgacacgagc 120
 agcagaattc gtcgagggcc gctggttgct gcgagaggtc cgggccttcg tgggatcttg 180
 aaaattgaat gttctaattgg agtccaaggg tggcaagaag aagtctagca gtagtcgttc 240
 ctccctgatg tacgaagctc cccttggtta cagcatcgag gatatccgcc 290

<210> 516
 <211> 291
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 516

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 tctcttcggg gctagagaaa tataggccgc cgcctcctcc tacattacgg tgaaagggtgg 120
 gcggttaggg ttgggagatc tcttgactca cgacacgagc agcagaattc gtcgagggcc 180
 gctggttgct gcgagaggtc cgggccttcg tgggatcttg aaaattgaat gttctaattgg 240
 agtccaaggg tggcaagaag aagtctagca gtagtcgttc ctccctgatg t 291

<210> 517
 <211> 305
 <212> DNA
 <213> Zea mays

<400> 517

gtggttcgtt aggaaaggaa atcgattccc ccgcacatctg atctcttcgg tgctagagaa 60
 atataggccg ccgccgcctc ctctttgttc ggtgaaagggt gggcagttag ggttgggaga 120
 tctcttgact cacgacacga gcagcagaat tcgtcgaggg ccgctggttg ctgcgagagg 180
 tccgggcctt cgtgggatct tgaaaattga atgttctaag ggagtcgaag ggtggcaaga 240
 agaagtctag cagtagtcgt tcctccctga tgtacgaagc tccccttggc tacagcatcg 300
 aggat 305

<210> 518
 <211> 297
 <212> DNA
 <213> Zea mays

<400> 518

atcgattccc ccgcacccga tctcttcggt gctagagaaa tataggccgc cgcctcctcc 60
 tcattcggtg aaagggtgggc ggtaggggtt gggagatctc ttgactcacg acacgagcag 120
 cagaattcgt cgagggccgc tggttgctgc gagagggtccg ggccttcgtg ggatcttgaa 180
 aattgaatgt tctaattggag tccaaggggtg gcaagaagaa gtctagcagt agtcgttcct 240
 ccctgatgta cgaagctccc cttggctaca gcatcgagga tatccgccct gcaggcg 297

<210> 519
 <211> 301
 <212> DNA
 <213> Zea mays

<400> 519

gtggttcgtt aggaaaggaa atcgattccc ccgcacccga tctcttcggt gctagagaaa 60
 tataggccgc cgcctcctcc tcattcggtg aaagggtgggc ggtaggggtt gggagatctc 120
 ttgactcacg acacgagcag cagaattcgt cgagggccgc tggttgctgc gagagggtccg 180
 ggccttcgtg ggatcttgaa aattgaatgt tctaattggag tccaaggggtg gcaagaagaa 240

gtctagcagt agtcgttcct ccctgatgta cgaagctccc cttggctaca gcatcgagga 300
t 301

<210> 520
<211> 287
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 520

aagгнаatcg atncccccgс atccgatcnc ttcggtgcta gagaaatata ggccgсcgcc 60
tcncctcat tcggtgaaag gngggcggtt agggttggga gatctcttga ctcacgacac 120
gagcagcaga attcgtcgag ggccgctggt tgctgcgaga ggtccggggc ttcgtgggat 180
cttgaaaatt gaatgttcta atggagtcca agggtgгcaа gaagaagtct agcagtagtc 240
gttcctccct gatgtacgaa gctccccttg gctacagcat cgaggat 287

<210> 521
<211> 298
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 521

gaaatcgatt cccccgcатc cgatctcttc ggtgctagag aaatataggc cgccgcctcc 60
tcctcattcg gtgaaaggтg ggcggтtagg gttgggagat ctcttgactc acgacacgag 120
cagcagaatt cgtcgagggc cgctggttgс tgсgagaggt ccgggccttc gtgggatctt 180
gaaaattgaa tgttctaатg gagtccaagg gtggcaagaa gaagtctagc agtagtcgтт 240
cctccctgat gtacgaagct ccccttgгgt acagcatcga ggatatccgc cctgcang 298

<210> 522
<211> 313
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 522

cgcgтggттc gttaggaaag gaaatcgatt cccncgcat ctgatctctt cggtgctaga 60

gaaatatagg ccgccgccgc ctctccttg ttcggtgaaa ggtgggcagt tagggttggg 120
 agatctcttg actcacgaca cgagcagcag aattcgtcga gggccgctgg ttgctgcgag 180
 aggtccgggc cttcgtggga tcttgaaaat tgaatgttct aatggagtcc aagggtggca 240
 agaagaagtc tagcagtagt cgttcctccc tgatgtacga agctcccctt ggctacagca 300
 tcgaggatat ccg 313

<210> 523
 <211> 265
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 523

cgcggtgggttc gttaggaaag gaaatcgatt cccccgcac ctgatctctt cgggtgctaga 60
 gaaatatang ccgccgccgc ctctccttg ttcggtgaaa ggtgggcagt tagggttggg 120
 agatctcttg actcacgaca cgagcagcag aattcgtcga gggccgctgg ttgctgcgag 180
 aggtccgggc cttcgtggga tcttgaaaat tgaatgttct aatggagtcc aagggtggca 240
 agaagaagtc tagcagtagt cgttc 265

<210> 524
 <211> 272
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 524

gngtgggttcg ttaggaaagg aaatcgatnc nccccgcac tgatcncntc ggtgctagag 60
 aaatataggc cgccgccgc ncccnccctt gttcggtgaa aggnnggcag ttagggttgg 120
 gagatcncctt gactcacgac acgagcagca gaattcncgc agggccgctg gttgcngcga 180
 gaggnccggg ccttcgtggg atcttgaaaa ttgaatgtnc taatggagtn caagggtggc 240
 aagaagaagt ctagcagtag tcgttcctcc ct 272

<210> 525
 <211> 550
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 525

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agttataagn gggggnntagn aaggaacgct ntnccgggtcc ggaattcccg ggtcgaccca   60
cgcggtccgca gcattgagga cgttcgacct gccggaggcg tgaagaagtt ccagtctgct   120
gcttactcca actgcgcgaa gaagccatcc tgatatccct tttggcttcc tcattctagt   180
agnttaggat ttcttttctg acactttgat tctgaccaat ctctctggcc tgctgcttcc   240
tgataatcga ccagttcccc agtcttgctc cttgcactcc tccctccatc tccagcattg   300
tgttctgatt cacctgctcc aatggctggt ctttctgctg ctgatgcttc ccggtctcag   360
ctatcggggt tgagggctat gagaagcgcc ttgagatcac attctctgag gcacctgtct   420
ttgtggaccc tcatgggccg tggtttgctg gccctctnca gggcccanat tgactctggt   480
ctggatcttg cacggtgcac aattgtgtnc ganctctnca acaaggattt cgactcatat   540
gtcctttctg                                     550

```

<210> 526
 <211> 537
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 526

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taatgtgn tn nnttggggn tnggggagga nanngtaant gcttctaccg gtccggaatt   60
cccgggtcga cccacgcgtc cgcaaagctc tctggcatct ctgaaatcat ccccgagatg   120
gagatctgcg attttgactt tgaaccctgt ggctactcca tgaatgcgat ccatggctct   180
gcattctcca caatccatgt gacgcccag gacgggttca gctatgccag ttatgagggt   240
atgggcttgg atgccactgc tctgtcttat ggtgaccttg tcaagagggt ccttcgggtgc   300
tttggcccct cggagttttc cgttgccgtg accatcttcg gcgggctggg ccatgccggg   360
acatggggaa aggcaattgg tgcagaggtc tatgactgca acaacatggt ggagcaggag   420
ctgcctggag gcggctcctc gtgtaccaga gcttctgtgc tgctgaagac gctgttgcta   480
cctcgcccaa atctgttttc cactgctttg acggcgagaa cgtggagagt gctcctc     537

```

<210> 527
 <211> 544
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 527

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atgttnttta ntttttggga tantggtngn ncttctccgg tccggaattc ccgggtcgac 60
nnacgcgtcc gcccacgcgt ccggaagaaa gcttctgtct ttttcaagac taatgctgat 120
gggaacacaa catgtgccaa ggaaatgaca aagctctctg gcatctctga aatcatcccc 180
gagatggaga tctgcgattt tgactttgaa ccctgtggct actccatgaa tgcgatccat 240
ggctctgcat tctccacaat ccatgtgacg cccgaggacg gtttcagcta tgccagttat 300
gaggttatgg gcttggatgc cactgctctg tcttatggtg accttgtcaa gagggtcctt 360
cggtgctttg gccctcggga gttttccggt gccgtgacca tcttcggcgg gcgtggccat 420
gccgggacat ggggaaaggc acttgggtgca naggtctatg actgcaacaa catgggtggaa 480
cangagctgc ctggaagcgg gctnctcgtg taccaaagct tctgtgctgc tnaaacnctg 540
ntgc 544
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<210> 528

<211> 539

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 528

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gcnggnttgn nttnggntgg gggnggntaa tgtaacctn tccggaattc ccgggtcgac 60
ccacgcgtcc gcggacgcgt gggcggacgc gtggggactc atatgtcctt tctgagtaa 120
gcttgtttat ctgtcctctg aagattgtca tcaagacctg tggcactacc aagctcctgc 180
tcaccattcc aagaatcctt gagcttgctg aagagctgtc tatgccactt gctgctgtga 240
agtactcccg tgggacgttc atctttcctg gcgcacagcc agccccccac aggagcttct 300
ctgaggaagt tgctgcactt aaccgctact ttggcggcct gaaatctggt ggtaatgctt 360
atgtgattgg agatccagca agacctggac agaagtggca cgtcttctac gccactgagt 420
accagagca accaatgggt aaccttgaaa tgtgcatgac tggctctggac aagaaagaaa 480
gcttctgnct ttttcaagac taatgctgat gggnacacaa catgtgccaa ggaaatgac 539
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<210> 529

<211> 472

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 529

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antgttacgt gngccggnng cnggcngaen ttcanggggc gacgcacgcg tccgcaagcc 60
ctgctcacca ttccaagaat ccttgagctt gctgaagagc tgtctatgcc acttgctgtg 120
tgaagtactc ccgtgggacg ttcattcttc ctggcgacac agccagcccc ccacagggct 180
tctctgagga agttgctgca cttaaccgct actttggcgg cctgaaatct ggtggtatgc 240
ttatgtgatt ggagatccag caagacctgg acagaagtgg cacgtcttct acgccctgag 300
taccagagc aaccaatggg taaccttgag atgtgcatga ctgggtctgga caagagaaaag 360
cttgtgtctt tttcaagact aatgctgatg ggaacacaac atgtgccaag gaatgacaaa 420
gctctctggc atctctgaaa tcatccccga gatggagatc tgcgattttg ac 472
```

<210> 530

<211> 421

<212> DNA

<213> Zea mays

<400> 530

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cgaggacggt ttcagctatg ccagttatga ggttatgggc ttggatgcca ctgctctgtc 60
ttatggtgac cttgtcaaga gggtccttcg gtgctttggc ccctcggagt tttccgttgc 120
cgtgaccatc ttcggcgggc gtggccatgc cgggacatgg ggaaaggcac ttggtgcaga 180
ggtctatgac tgcaacaaca tgggtggagca ggagctgcct ggaggcgggc tcctcgtgta 240
ccagagcttc tgtgtgtctg aagacgctgt tgctacctcg cccaaatctg ttttccactg 300
ctttgacggc gagaacgtgg agagtgtctc tcctcctatg aagaaggact acaaactggc 360
taatcttcta tgctgggagg aggaagcgga tgccatggag gagaaggcgg gagtgttga 420
t 421
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<210> 531

<211> 437

<212> DNA

<213> Zea mays

<400> 531

cacatagctt cgtcgatttg aatttgatgt actaatggag tctaagggtg gcaaaaagtc 60
 tagcagtagt cgttccatga tgtatgaagc tccccttggc tacagcattg aggacgttcg 120
 acctgccgga ggcgtgaaga agttccagtc tgctgcttac tccaactgcg cgaagaagcc 180
 atcctgatat cccttttggc ttccctcattc tagtagttta ggatttcttt tctgacactt 240
 tgattctgac caatctctct ggccctgctgc ttccctgataa tcgaccagtt ccccagtcct 300
 gctccttgca ctccctctct catctcagca ttgtgttctg attcacctgc tccaatggct 360
 ggtctttctg ctgctgatgc ttccccggtc tcagctatcg ggtttgaggg ctatgaaaaa 420
 gcgccttgag atcacat 437

<210> 532
 <211> 472
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 532

cttcttttgc ccgccaggta caagtaagga attccccgnt cgaccacgc gtengcaaga 60
 tccttgagct tgctgaagag ctgtctatgc cacttgctgc tgtgaagtac tcccgtggac 120
 gttcatcttt cctggcgcac agccagcccc ccacaggagc ttctctgagg aagttgcgca 180
 ctttaaccgct actttggcgg cctgaaatct ggtggtaatg cttatgtgat tggagaccag 240
 caagacctgg acagaagtgg cacgtcttct acgccactga gtaccagag caaccatggt 300
 taaccttgaa atgtgcatga ctggtctgga caagaagaaa gcttccgtcn ttttaaagac 360
 taatgctgat gggaacacaa catgtgccaa ggaaatgaca aagctctctg gcaactctgaa 420
 atcatccccg agatggagat ctgcgatttt gactttgaac cctgtggcta cc 472

<210> 533
 <211> 432
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 533

cctcgcccaa atctgttttc cactgctttg acggcgagaa cgnggagagt gctcctcctc 60
 ctatgaagaa ggactacaag ctggctaata ttctctgctg ggaggaggaa gcggatgcc 120

tggaggagaa ggcgggagtg cttgatgagt aagacgggct tctggggtcg atttgcttct 180
gagttgttta ttttatatcg tcgcaatttc gtggttgctg tttggttatt ctgtgaagca 240
gccaagccag gctattgtta tgaaaatttg tcgtctgtaa gcatgtgaac ttccgatgtt 300
gccacatgct ggatcagtct gaataagtaa gtatgcagct ctaggtgggc agctgctct 360
accacaatga gcatgaacgt atggagaaat atctgtgaac ccattttgnt tatgaataag 420
atttgntttt tt 432

<210> 534

<211> 501

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 534

cgnggctngt nngngtggga tttnnatgaa ncgtctctac cggtcnggaa ttcccgggtc 60
gaccacgcg tccggagcaa ccaatggta accttgaaat gtgcatgact ggtctggaca 120
agaagaaagc ttctggcttt ttcaagacta atgctgatgg gaacacaaca tgtgccaagg 180
aatgacaaa gctctctggc atctctgaaa tcatccccga gatggagatc tgcgattttg 240
actttgaacc ctgtggctac tccatgaatg cgatccatgg ctctgcattc tccacaatcc 300
atgtgacgcc cgaggacggt ttcagctatg ccagttatga gggttatggc ttggatgcca 360
ctgctctgtc ttatgggtgac cttgtcaaga gggtccttcg gtgctttggc ccctcggagt 420
tttccgttgc ccgtgaccat cttcngcggc cgtggccatg ccnggacatg gggaaaggca 480
cttgggtgcan aggtctatga c 501

<210> 535

<211> 477

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 535

ttinnaacn cn acgcggnn cn gaaccggtcn gcngaattcc cgggccgacc cacgcgtcnc 60
ggacgcgtgg gctgaaatct ggtggtaatg cttatgtgat tggagatcca gcaagaccgg 120
acagaagtgg cacgtcttct acgccactga gtaccagag caaccaatgg ttaacctgag 180

atgtgcatga ctggtctgga caagaagaaa gcttgtgtct ttttcaagac taatgcatg 240
ggaacacaac atgtgccaaag gaaatgacaa agctctctgg catctctgaa atcatcccga 300
tatggagatc tgcgattttg acttcgaacc ctgtggctac tccatgaatg cgatcatggc 360
tctgcattct ccacaatcca tgtgacgccc gaggacgggt tcaagctacg ccattacgan 420
gttatgggct tggatgccac tgctctgtct tatggtgacc ttgtcaagan ggcctcc 477

<210> 536
<211> 442
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 536

gcatgactgg tctggacaag aagaaagctt gtgtcttttt caagactaat gctgatggga 60
acacancatg tgccaaggaa atgacaaagc tctctggcat ctctgaaatc atccccgaga 120
tgagatctg cgattttgac ttcgaaccct gtggctactc catgaatgcg atccatggct 180
ctgcattctc cacaatccat gtgacgcccg aggacgggtt cagctacgcc agttacgagg 240
ttatgggctt ggatgccact gctctgtctt atggtgacct tgtcaagagg gtccctccgg 300
gctttggccc ctcagagttt tccgttgccg tgaccatctt cggcgggctg ggccatgccg 360
ggacatgggg aaaggcactt ggtgcanaag tctatgactg cacancatgg tggaacanga 420
acttgccctg agcggcttct ct 442

<210> 537
<211> 421
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 537

ctgaatagnt gtctatgcca cttgctgctg tgaaggncn cnntgggacg ttcattcttn 60
ctggcgacac gccagccccc cacaggagct tctctgagga agttgctgca cttaccgct 120
actttggcgg cctgaaatct ggtggtaatg cttatgtgat tggagatcca gcaagacctg 180
gacagaagtg gcacgtcttc tacgccactg agtaccaga gcaaccaatg gttaacctg 240
aaatgtgcat gactggctctg gacaagaaga aagcttctgt ctttttcaag actaatgctg 300

atgggaacac aacatgtgcc aaggaaatga caaagctctc tggcatctct gaaatcatcc 360
 ccgagatgga gatctgcgat tttgactttg aaccctgtgg ctacttcatg aatgccaan 420
 c 421

<210> 538
 <211> 410
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 538

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 tctggcatct ctgaaatcat ccccgagatg gagatctgcg attttgactt tgaaccctgt 120
 ggctactcca tgaatgcgat ccatggctct gcattctcca caatccatgt gacgcccag 180
 gacggtttca gctatgccag ttatgaggtt atgggcttgg atgccactgc tctgtcttat 240
 ggtgaccttg tcaagagggg ccttcggtgc tttggcccct cggagttttc cgttgccgtg 300
 accatcttcg gcgggcgtgg ccatgccggg acatggggaa aggcaacttg tgcagaggtc 360
 tatgactgca acaacatggt ggagcangag ctgcctggag gcgggcttct 410

<210> 539
 <211> 475
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 539

gnggnnnnnn gnttnttagc ngccngcacc aatcaaagan tcgcgggtcg anncacgcgc 60
 cnetccctcn atctccagca ttgtgttctg attcacctgc tccaatggct gttctttcgc 120
 tgctgatgct tccccggtct cagctatcgg gtttgagggc tatgagaagc gccttgaatc 180
 acattctctg aggcacctgt ctttgtggac cctcatgggc gtggtttgcg tgcccttcca 240
 gggcccagat tgactctggt ctggatcttg cacgggtgcac aattgtgtct gagcttccaa 300
 caaggatttc gactcatatg tcctttctga gtcaagcttg tttatctatc ctctaagatt 360
 gtcatcaaga cctgtggcac taccaagctc ctgctcacca ttccaagaat cctgagcttg 420
 ctgaagaact gtctatgcc cttgctgcgt gaaataatcc cgttgggaac gtcat 475

<210> 540
 <211> 500
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 540

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ggnnnnnnnn nngttaactt cnacgccggt cggtacanag tcnnggaatt cccgggtcgc 60
ccacgcgtcc gccacgcgt ccgcaaagct ctctggcatc tctgaaatca tccccgagtg 120
gagatctgcg attttgactt cgaaccctgt ggctactcca tgaatgcgat ccatggcctg 180
cattctccac aatccatgtg acgcccgagg acggtttcag ctacgccagt tacgagttat 240
gggcttggat gccactgctc tgtcttatgg tgaccttgtc aagaggggtcc tccggggcttt 300
ggcccctcag agttttccgt tgccgtgacc atcttcggcg ggcgtggcca tgccggacat 360
ggggaaaggc acttgggtgca gaggtctatg actgcaacaa catggtggaa cagagctgcc 420
tggaagcggg ctctcgtgt aacaaaactt tcgtncgct gaaaancccg ttccaactcc 480
ccnaaatcnt ttttcaanng 500

```

<210> 541
 <211> 508
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 541

```

agnnaggagn ggtgnnnat ngntagnng ntnaannaaa tncncgtacc ggtccggaat 60
cccgggtcga cccacgcgtc cgctccagca ttgtgttctg attcacctgc tccaatggct 120
gttctttctg ctgctgatgn ttccccggtc tcagctatcg ggtttgaggg ctatgagaag 180
cgcccttgaga tcacattctc tgaggcacct gtctttgtgg accctcatgg gcgtgggttg 240
cgtgccctct ccagggccca gattgactct gttctggatc ttgcacggtg cacaattgtg 300
tccgagctct ccaacaagga ttctgactca tatgtcctct ctgagtcaag cttgtttatc 360
tatactctga agattgtcat caagacctgt ggcactacca agctcctgct caccattcca 420
agaatccttg agcttgctga agaagctgtc tatgccactt gctgctgtga aagtacttcc 480
gtgggacgtc atctttcctg gtgcacac 508

```

<210> 542
 <211> 468
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 542

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ggnnnnngta ctttanntnn cagaggcctg gtcaagnnca agcgggtcga nncangcntn 60
nncagactt ctgcgntctc agctatcggg tttaggggt atgagaagcg ccttgagaca 120
cattctctga ggcacctgtc ttgtggacc ctcatgggcg tggtttgct gccctctcag 180
ggcccagatt gactctgttc tggatcttgc acggtgcaca attgtgtctg agctctcaac 240
aaggatttcg actcatatgt cttttctgaa gtcaagcttg tttatctatc ctctgagatt 300
gtcatcaaga cctgtggcac taccaagctc ctgctcacca ttccaagaat ccttagcttg 360
ctgaagagct gtctatgcc cttgtgtctg tgaagtactc ccgtgggacg ttctctttcc 420
tgggcgcaca gccagcccc cacangagct tctctganga agttgctg 468

```

<210> 543
 <211> 494
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 543

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ggnnngnaact tctacgccgc cggtttcggt cgncaaattc ccgggtaaac ccacgcgtcg 60
nccacgcgtc cgcccacgcg tccgggggtcc ttcggtgctt tggcccctcg gagttttcgt 120
tgccgtgacc atcttcggcg ggcgtggcca tgccgggaca tggggaaagg cacttgggca 180
gaggctctatg actgcaaaa catggtggag caggagctgc ctggaggcgg gctcctgtgt 240
accagagctt ctgtgctgct gaagacgctg ttgctacctc gcccaaactc gttttcactg 300
ctttgacggc gagaacgtgg agagtgtctc tctcctatg aagaaggact acaactggct 360
aatcttctat gctgggagga ggaagcggat gccatggagg agaangcggg agtcttgatg 420
agtaagacgg gcttctgggg tccaattgcc tccganttgg ttaatttaaa actcccaaact 480
ttntgggttg cctt 494

```

<210> 544
 <211> 511
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 544

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agtgtnaann ggntggnnng nnangttntn ctgtacngaa nngnannntc gaccnanncg   60
tacgctttcg gctacgnnat tctantagtt taggatttct tttctgacac tttgattctg   120
accaatctcn ctggcctgct gcttcctgat aatcgaccag ttccccagtc ttgctccttg   180
cactcctccc tccatctcca gcattgtggt ctgattcacc tgcaccaatg gctgntcttt   240
ctgctgctga tgcttcccgg tctcagctat cgggtttgag ggctatgaga agcgccttga   300
gatcacattc tctgaggcac ctgtctttgt ggacctcat gggcgtgggt tgcgtgccct   360
ntncaggggc cagattgact ctggtctgga tcttgacagg tgcacaattg tgtncgagct   420
nttcaacaag gatttcgact natatgtcct tctgaatcaa acctgggttat ctatcctctg   480
naaaatggca atcaaaaacc tgtgggacta c                                     511

```

<210> 545
 <211> 478
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 545

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ttnnntgccn ngccggtcna ngtcacaang ncccgggtcg acccacgcgt ccnttgggggt   60
cacctgctcc aatggctggt ctttctgctg ctgatgcttc cccggtctca agctatcggt   120
ttgagggcta tgagaagcgc cttgagatca cattctctga ggcacctgtc tttgtggccc   180
tcatgggcgt ggtttgctg cctctctcag ggcccagatt gactctgttc tggatctgca   240
cgggtgcaca ttgtgtctga gctctccaac aaggatttcg actcatatgt ccttttgagt   300
caagcttggt tatctatcct ctgaagattg tcatcaagac ctgtggcact accagctcct   360
gtcaccatt ccaagaatcc ttgagcttgc tgaagaactg tctaagccac ttgtgctgtg   420
aaatacccn tgggaaattn aaacctttcc ngnggcaaan caacccccca cagagctt     478

```

<210> 546
 <211> 533

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 546

ggnnaggnca ggtttganng nnggnatggg ggaaatnntt cgcccgaat tcccgggtcg 60
acccacgcgt ccgtgaagat tgtcatcaag acctgtggca ctaccaagct cctgttcaca 120
attccaagga tcctagagct tgctgaagag ctgtctatgc ctcttgctgc tgtgaagtac 180
tcccgcgga cgttcatctt tcctggcgca cagccagccc cccaccggag cttctccgag 240
gaagttgctg tacttaaccg atactttggg ggccatgaagt ctggtggcaa tgcttatgtg 300
attggagatg cagcaagacc aggacagaag tggcacatct actacgccac tgagtaccca 360
nagcaaccaa tgggtcaacct tgagatgtgc atgactggtc tggacacgaa gaaagcttca 420
gtcttcttca agactaatgc tgatggcaac acaacatgtt ccaagggaat gaccaaactt 480
tttggnatct ctgaaattat tcctggaaat gganatttgn gattttgact nca 533

<210> 547

<211> 485

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 547

gggnnngtaa ntactagnn cgnncnaata canagnncng tngnncnnta caannncnctc 60
agtgnntcnt ncnactgctt tgacggcgag aacgtggaga gtgctcctcc tcctatgaga 120
aggactacaa gctggctaata cttctctgct gggaggagga agcggatgcc atggagggaa 180
ggcgggagtg cttgatgagt aagacgggct tctgggggtcg atttgcttct gagttgttat 240
tttatatcgt cgcaatttcg tggttgtcgt ttggttattc tgtgaagcag ccaagcaggc 300
tattgttatg aaaatttgc gtctgtaagc atgtgaactt ccgatgttgc cacagctgga 360
tnagtctgaa taagtaagta tgcaactcta nggtggtcanc tgcgtctaac acatgaagca 420
tgaacgtntg gagaaatntc cgtgnaaccc atttgtttat gaaaaaanat tgnnttttcn 480
aattt 485

<210> 548

<211> 442

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 548

 cggaacnctg ggggtggctac tccatgaatg cgatccatgg ctctgcattc tccacaatcc 60
 atgtgacgcc cgaggacggg ttcaagctatg ccagttatga gggttatgggc ttggatgcc 120
 ctgctctgtc ttatgggtgac cttgtcaaga gggctccttcg gtgctttggc ccctcggagt 180
 tttccgttgc cgtgaccatc ttccggcgggc gtggccatgc cgggacatgg ggaaaggcac 240
 ttggtgcaaa ggtctatgac tgcaacaaca tgggtggaaca agagctgcct ggaggcgggc 300
 tcctcgtgta ccaaacttc tgtgctgctg aagacgctgt tgctacctcc ccaaactctgt 360
 ttttcaactgc tttgaccgcn aaaacgtgga aaagtgttc tctctatnaa agaaagacta 420
 caaactggct aatcttntat gg 442

<210> 549
 <211> 449
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 549

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 tgnntggaga tccagcaaga cctggacaga aatggcacgt cttctacgcc actgagtacc 120
 cagagcaacc aatgggttaac cttgaaatgt gcatgactgg tctggacaag aagaaagctt 180
 ctgtcttttt caagactaat gctgatggga acacaacatg tgccaaggaa atgacaaagc 240
 tctctggcat ctctgaaatc atccccgaga tggagatctg cgattttgac tttgaaccct 300
 gtggctactc catgaatgcg atccatggct ctgcattctc cacaatccat gtgacgcccg 360
 aggaagggtt cagctatcca gttatgaagg tatnggcttg gatcccctgc tcttgcntat 420
 ngggancctt tcnagaaggg tccttcggg 449

<210> 550
 <211> 512
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<400> 550

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ggngnnnnnnn tggnnngngn aattntacgc cgtcngtagc ctcanagaat tccaaggtca 60
cccacccgtc cnatttcttn tctgacactt tgnttctgac cantctctct ggctgctct 120
tcctganant cnatcatgtt ccncaggtct tgctccttgc actcctccct ccctctcagc 180
attgtgttct ggttcacctt gctccaatgg ctgttctttc tgntgctgat gcttcccggg 240
ctcanctatc ggggttgagg gcnatgagaa gcgccttgag atcanattct ccgagcacct 300
gtctttgtgg accctcatgg gcgtgggttg cgtgccctct ccagggccca cattantctg 360
ttctggatct gcacngtgca cnnttggtgc tgagctctcc aacacggntt tcgctcaata 420
tgtcctttct gagtcaagct tgtttatcta tcctctgnag attgtnttca atcngtggn 480
actaccaagc tcctgctcaa tantcnaaga at 512
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<210> 551

<211> 448

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 551

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ggcggcctga aatctggtgg taatgcttat gtgattggag atccagcaag acctggacag 60
aagtggcacg gggntacgc cactgagtcc cagagcaacc aatggttaac cttgaaatgt 120
gcatgactgg tctggacaaa gaaganagct tctgtctttt tcaaagacta atgctgatgg 180
gaacacaaca tgtgccaagg aaatgacaaa gctctctggc atctctgaaa tcatccccga 240
gatggagatc tgcgattttg actttgaacc ctgtggctac tccatgaatg cgatccatgg 300
ctctgcattc tccacaatcc atgtgacgcc cgaggacggt ttcagctatg ccaagttatg 360
aggttatggg cttggatccc actggtttgg cttatggnga ccttntcaaa aanggtcctt 420
cggngctttt gggcccctcg gaagnttt 448
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<210> 552

<211> 384

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 552

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gaatccttga gcttgctgaa gagctgtcta tgccacttgc tgctgtgaag tactcccgtg 120
ggacgttcat ctttcctggt gcacagccag cccccacag gagcttctct gaggaagttg 180
ctgcacttaa ccgctacttt ggcggcctga aatctggtgg taatgcttat gtgattggag 240
atccagcaag acctggacag aagtggcacg tcttctacgc cactgagtac ccagagcaac 300
caatggntaa ccttgagatg tgcattgactg gtctggacaa gaaagaaagc ttctgtcttt 360
ttcaaagact aaatgctgat ggga 384

<210> 553

<211> 469

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 553

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gtgatcttga cttcgaacct tgccgctact ccatgaatgc aatccatggc tctgcgttct 120
ccacngatcc atgtgacgcc tgaggatggg ttcagctacg ccagttatga ggttatgggc 180
ttggatgcca ctgccctgtc ttacggtgac cttgtcaaga gggtccttgg gtgcttcggc 240
ccctcagaat tttctgtcgc cgtgaccatc ttccggcgggc ggngccaagc tgggacatgg 300
ggaaaggaac ttggtgcgga ggcttatgac tgcaacaaca tggtcgagca ggagctgcct 360
ggaggtggga tctcatcta ccaaagcttc ttgtgctgnt gaaanacccc gttgctagct 420
cgcccaaata cggctcttcgc tgctttgaat ggcaanaaat gcaacancc 469

<210> 554

<211> 347

<212> DNA

<213> Zea mays

<400> 554

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ggttatgggc ttggatgcca ctgctctgtc ttatggtgac ttgtcaagag ggtcctccgg 120
tgctttggcc cctcagagtt ttccgttgcc gtgaccatct tcggcgggcg tggccatgcc 180
gggacatggg gaaaggcact tgggtgcagag gtctatgact gcaacaacat ggtggagcag 240

gagctgcctg gaggcgggct cctcgtgtac cagagcttct gtgctgctga agacgctggt 300
gctacctcgc ccaaactctgt tttccatgct ttgacggcga gaacgtg 347

<210> 555
<211> 435
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 555

gcctnactng cctngncnng aanaaagttt ttntcnntgn caanacnaat gctgatgggn 60
gggcancatg tgncaaggan gtggcnaagc tctatgncat ntctgaaatc atccccgaga 120
tgagatctg cgattntgac ttccnaccct gtggctactc catgaatgag atccatggct 180
ctgcattctc cacaatccat gtgacgcccg agnncgggtt cagctacncc agttacgagg 240
ttatgggctt ggatgccact gntntgtctt atggcgacct tgtcaagagg gtccttcggt 300
gctttgcccc tcagagtttt acgangccgt gaccatcttc ngcngaagtg nccatgcctg 360
gacatggggg aaaggcactt ggtgccnagg cctattnctg nnacancatg gtggaacang 420
agcngccttg angca 435

<210> 556
<211> 334
<212> DNA
<213> Zea mays

<400> 556

caacaacatg gtggagcagg agctgcctgg aggcgggctc ctcgtatacc agagcttctg 60
cgctgctgaa gacgctgttg ctacctcgcc caaatctggt ttccactgct ttgacggcga 120
gaacgtggag agtgcctcct ctcctatgaa gaaggactac aaactagcta atcttctctg 180
ctgggaggag gaagcggatg ccatggagga gaaggcggga gtgcttgatg agtaagacgg 240
gcttctgggtg tcgatttgct tctgagttgt ttattttata tcgtcgcaat ttcgtgggtg 300
tcgtttgggt attctgtgaa gcagccaagc cagg 334

<210> 557
<211> 404
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 557

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gggtcgaccc acgcgtccgc tcatatgtcc tttctgagtc aagcttggtt atctatcctc 120
tgaagattgt catcaagacc tgtggcacta ccaagctcct gtcaccatt ccaagaatcc 180
ttgagcttgc tgaagagctg tctatgccac ttgctgctgt gaagtactcc cgtgggacgt 240
tcatctttcc tggcgcacag ccagcccccc acaggagctt ctctgaggaa gttgctgcac 300
ttaaccgcta ctttggcggc ctgaaatctg gtggtaatgc ttatgtgatt ggagatccag 360
caagacctgg acagaagtgg cacgtcttct acgcactga gtac 404
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<210> 558

<211> 430

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 558

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gatcttgac ggtgcacaat tgtgtccgag ctctncaaca aggatttoga ctcatatgtc 180
ctttctgagt caagcttggt tatctatcct ctgaagattg tcatcaagac ctgtggcact 240
accaagctcc tgctcaccat tccaagaatc cttgagcttg ctgaagaact gtctatgcca 300
cttgctgntg tgaaagtact cccgtgggga cgttcatctt tcctggcgca caagncaggc 360
ccccacaagg agcttntttt gaaggaagt gcttgnactt taaccggtta atttgggggg 420
ccttgaaant 430
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<210> 559

<211> 319

<212> DNA

<213> Zea mays

<400> 559

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gtgcatgact ggtctggaca agaagaaagc ttgtgtcttt ttcaagacta atgctgatgg 60
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gaacacaaca tgtgccaagg aaatgacaaa gctctctggc atctctgaaa tcatccccga 120
gatggagatc tgcgattttg acttcgaacc ctgtggctac tccatgaatg cgatccatgg 180
ctctgcattc tccacaatcc atgtgacgcc cgaggacggg ttcagctacg ccagttacga 240
ggttatgggc ttggatgcca ctgctctgtc ttatgggtgac cttgtcaaga gggtcctccg 300
gtgctttggc ccctcagag 319

<210> 560

<211> 346

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 560

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gcaaccaatg gttaaccttg agatgtgcat gactggctctg gacaagaaga aagcttgtgt 120
ctttttcaag actaatgctg atgggaacac aacatgtgcc aaggaaatga caaagctctc 180
tggcatctct gaaatcatcn ttnagatgga gatctgcgat tttgacttcg aaccctgtgg 240
ctactccatg aatgcgatcc atggctctgc attctccaca atccatgtga cgcccgagga 300
cggtttcagt acgccattac gaggttatgg gcttggatgc catgct 346

<210> 561

<211> 317

<212> DNA

<213> Zea mays

<400> 561

gtaccacagag caaccaatgg ttaaccttga gatgtgcatg actggctctgg acaagaagaa 60
agcttgtgtc tttttcaaga ctaatgctga tgggaacaca acatgtgcca aggaaatgac 120
aaagctctct ggcattctctg aaatcatccc cgagatggag atctgcgatt ttgacttcga 180
accctgtggc tactccatga atgcgatcca tggctctgca ttctccacaa tccatgtgac 240
gcccagaggac ggtttcagct acgccagtta cgaggttatg ggcttggatg cactgctct 300
gtcttatggg gaccttg 317

<210> 562

<211> 342

<212> DNA
 <213> Zea mays
 <400> 562
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 ttatggtgac cttgtcaaga gggtcctccg gtgctttggc ccctcggagt tttccgttgc 120
 cgtgaccatc ttcggcgggc gtggccatgc cgggacatgg ggaaaggcac taggtgcaga 180
 ggtctatgac tgcaacaaca tggaggagca ggagctgcct ggaggcgggc tcctcgata 240
 ccagagcttc tgcgctgctg aagacgtgt tgctacctcg cccaaatctg tttccactg 300
 ctttgacggc gagaacgtgg agagtgtcct cctcctatga ag 342

<210> 563
 <211> 314
 <212> DNA
 <213> Zea mays
 <400> 563
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 agtagtttag gatttctttt ctgacacttt gattctgacc aatctctctg gcctgctgct 120
 tcctgataat cgaccagttc ccagtccttg ctccctgcac tcctccctcc atctccagca 180
 ttgtgttctg attcacctgc tccaatggct gttctttctg ctgctgatgc ttccccggtc 240
 tcagctatcg ggtttgaggg ctatgagaag cgccttgaga tcacattctc tgaggcacct 300
 gtctttgtgg accc 314

<210> 564
 <211> 541
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <400> 564
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 aattccccggg tcgaccacg cgtccggcaa caacatgggt gagcaggagc tgctggagg 120
 cgggctcctc gtgtaccaga gcttctgtgc tgctgaagac gctgttgcta cctcgcccaa 180
 atctgttttc cactgctttg acggcgagaa cgtggagagt gtcctcctc ctatgaagaa 240

ggactacaaa ctggctaate ttctatgctg ggaggaggaa ccggatgccca tggaggagaa 300
 ggcgggagtg cttgatgagt aagacggnc tntggggtn gattgcttnt gagttgntta 360
 ttttatatcg tngcaatttc cgtggntgtc gtttggttat tctgtgaagc agcnaancta 420
 tgcttattgg tatnaaantt tgctgntgtt aagcgtgtgn actttntact gttncannt 480
 gcttggatta anttntnaat aattnaatat tntaattttt ntgtnttttt ttntttnttc 540
 t 541

<210> 565
 <211> 308
 <212> DNA
 <213> Zea mays

<400> 565
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 tcaagactaa tgctgatggg aacacaacat gtgccaagga aatgacaaag ctctctggca 120
 tctctgaaat catccccgag atggagatct gcgattttga ctctgaaccc tgtggctact 180
 ccatgaatgc gatccatggc tctgcattct ccacaatcca tgtgacgcc gaggacgggt 240
 tcagctacgc cagttacgag gttatgggct tggatgccac tgctctgtct tatggtgacc 300
 ttgtcaag 308

<210> 566
 <211> 346
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 566

tgaagctccc cttgggctac agcattgagg acgttcgacc tgccggaggg tggaagaagt 60
 tccagtctgc tgcttactcc aactgcgcga agaagccatc ctgatatccc ttttggcttc 120
 cncattctag tagtttagga tttcttttct gacactttga ttctgaccaa tctctctggc 180
 ctgctnttcc tgataatcga ccagttcccc agtcttgctc cttgcaactcc tccctcctcc 240
 atctccagca ttgtgttctg attcacctgc tccaatggct gttctttctg ctgctgatgc 300
 ttccccggtc tcagctatcg ggttgagggc tatgagaagc gccttg 346

<210> 567
 <211> 303
 <212> DNA
 <213> Zea mays

 <400> 567

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 ttgctgctgt gaagtactcc cgtgggacgt tcattcttcc tggcgcacag ccagccccc 120
 acaggagctt ctctgaggaa gttgctgcac ttaaccgcta ctttggcggc ctgaaatctg 180
 gtggtaatgc ttatgtgatt ggagatccag caagacctgg acagaagtgg cacgtcttct 240
 acgccactga gtaccagag caaccaatgg ttaaccttga gatgtgcatg actggctctg 300
 aca 303

<210> 568
 <211> 316
 <212> DNA
 <213> Zea mays

 <400> 568

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 cggtttcagc tatgccagtt acgaggttat gggcttggat gccactgctc tatcttatgg 120
 tgacctgtgc aagaggggtcc tccggtgctt tggcccctcg gagttttccg ttgccgtgac 180
 catcttcggc gggcgtggcc atgccgggac atggggaaag gcactaggtg cagaggtcta 240
 tgactgcaac aacatggtgg agcaggagct gcctggaggc gggctcctcg tataccagag 300
 cttctgcgct gctgaa 316

<210> 569
 <211> 313
 <212> DNA
 <213> Zea mays

 <400> 569

 acggtgcaca attgtgtccg agctctccaa caaggatttc gactcatatg tcctctctga 60
 gtcaagcttg tttatctatc ctctgaagat tgtcatcaag acctgtggca taccaagctc 120
 ctgctcacca ttccaagaat ccttgagctt gctgaagagc tgtctatgcc acttgctgct 180
 gtgaagtact cccgtgggac gttcatcttt cctggtgcac agccagcccc ccacaggagc 240

ttctctgagg aagttgctgc acttaaccgc tactttggcg gcctgaaatc tggtggtaat 300
gcttatgtga ttg 313

<210> 570
<211> 512
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 570

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gaccacgcg tccgcggacg cgtgggcgat tcttaccaat cccctggcc tgctgctttc 120
ctgataatcg accagttccc cagtcttgct ccctgcagtc ctccctctc catctccagc 180
gttgtgttct gactcacctg caccaatggc tgttctttct gctgctggtg ctccccggc 240
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tgtctttgtg gaccccatg gcagcggttt gcgtgccctc tccaggctcc agattgactc 360
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ctatgttctc tccgagtcaa gcttgtcatc tatcctctga agattgncat caagacctgt 480
ggcactacca acttctggta caanttccag ga 512

<210> 571
<211> 314
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 571

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cttggttaca gcattgagga cgttcgacct gccggagngt gaagaagttc cagtctgctg 120
cttactccaa ctgcgcgaag aagccatcct gatatccctt ttggcttcct cattctagta 180
gttttaggatt tcttttctga cactttgatt ctgaccaatc tctctggcct gctgcttcct 240
gataatcgac cagttcccca gtcttgctcc ttgcactcct cctcctcca tctccagcat 300
tgtgttctga ttca 314

<210> 572
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 572

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 gagggtcctt ggggtgcttcg gccccctcgga attttctgtc gccgtgacca tcttcggcgg 120
 gcgngccaa gctgggacat ggggaaagga acttgggtgcg gaggcttatg actgcaacaa 180
 catggtcgag caggagctgc ctggaggtgg gatcctcatc taccagagct tctgtgctgc 240
 tgaagacgcc gttgctagct cgcccaaata cgttcttcgc tgctttgatg gcgagaatgc 300
 agcacctttt gcgaaggact gcaagctggc taatcttgtc tgcttgagg aagttggatg 360
 ctatcgagga gaaagatgga gtgcttgatg agtaaaacng gtttcttggt gncgatttgc 420
 tt 422

<210> 573
 <211> 295
 <212> DNA
 <213> Zea mays

 <400> 573

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 gctacgccag ttacgaggtt atgggcttgg atgccactgc tctgtcttat ggtgaccttg 120
 tcaagagggg cctccggtgc tttggcccct cagagttttc cgttgccgtg accatcttcg 180
 gcgggcgtgg ccatgccggg acatggggaa aggcacttgg tgcagaggtc tatgactgca 240
 acaacatggg ggagcaggag ctgcctggag gcgggctcct cgtgtaccag agctt 295

<210> 574
 <211> 295
 <212> DNA
 <213> Zea mays

 <400> 574

 ggcgtggttt gcgtgccctc tccagggccc agattgactc tgttctggat cttgcacggg 60
 gcacaattgt gtctgagctc tccaacaagg atttcgactc atatgtcctt tctgagtcaa 120

gcttgtttat ctatcctctg aagattgtca tcaagacctg tggcactacc aagctcctgc 180
 tcaccattcc aagaatcctt gagcttgctg aagagctgtc tatgccactt gctgctgtga 240
 agtactcccg tgggacgttc atctttcctg ggcacagcc agccccccac aggag 295

<210> 575
 <211> 299
 <212> DNA
 <213> Zea mays

<400> 575

gtcctctctg agtcaagctt gtttatctat cctctgaaga ttgtcatcaa gacctgtggc 60
 actaccaagc tcctgctcac cattccaaga atccttgagc ttgctgaaga gctgtctatg 120
 ccacttgctg ctgtgaagta ctcccgctggg acgttcactt ttcttggtgc acagccagcc 180
 cccacagga gcttctctga ggaagttgct gcacttaacc gctactttgg cggcctgaaa 240
 tctggtggta atgcttatgt gattggagat ccagcaagac ctggacagaa gtggcacgt 299

<210> 576
 <211> 299
 <212> DNA
 <213> Zea mays

<400> 576

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 ctgtggcact accaagctcc tgctcaccat tccaagaatc cttgagcttg ctgaagagct 120
 gtctatgcc a ttgctgctg tgaagtactc ccgtgggacg ttcactcttc ctggtgcaca 180
 gccagccccc cacaggagct tctctgagga agttgctgca ctttaaccgct actttggcgg 240
 cctgaaatct ggtggtaatg cttatgtgat tggagatcca gcaagacctg gacagaagt 299

<210> 577
 <211> 297
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 577

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 aagcggatgc catggaggag aaggcgggag tgcttgatga gtaagacggg cttctggggg 120

cgatttgctt ctgagttggt tattttatat cgtcgcaatt tcgtgggtgt cgtttggtta 180
 ttctgtgaag cagccaagcc aggctattgt tatgaaaatt tgtcgtctgt aagcatgtga 240
 acttccgatg ttgccacatg ctggatcagt ctgaataagt aagtatgcag ctctagg 297

<210> 578
 <211> 303
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 578

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 actggtctgg acaagaagaa agcttgtgtc tttttcaaga ctaatgctga tgggaacaca 120
 acatgtgcc aaggaaatgac aaagctctct ggcatctctg aaatcatccc cgagatggag 180
 atctgcgatt ttgacttcga accctgtggc tactccatga atgcgatcca tggctctgca 240
 ttctccacaa tccatgtgac gcccgaggac ggtttcagct acgccagtta cgagggttatg 300
 ggc 303

<210> 579
 <211> 304
 <212> DNA
 <213> Zea mays

<400> 579

ccgaggacgg tttcagctat gccagttatg aggttatggg cttggatgcc actgctctgt 60
 cttatggtga ccttgtcaag agggtccttc ggtgctttgg cccctcggag ttttccgttg 120
 ccgtgaccat cttcggcggg cgtggccatg ccgggacatg gggaaaggca cttggtgcag 180
 aggtctatga ctgcaacaac atggtggagc aggagctgcc tggaggcggg ctctctgtgt 240
 accagagctt ctgtgctgct gaagacgctg ttgctacctc gcccaaactct gttttccact 300
 gctt 304

<210> 580
 <211> 340
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 580

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ttttccactg ctttgacggc gngaacgtgg agagtgtcc tcctcctatg aagaaggact   60
acaaactggc taatcttcta tgctgggagg aggaagcgga tgccatggag gagaaggcgg   120
gagtgtctga tgagtaagac gggcttctgg ggtcgatttg cttctgagtt gtttatttat   180
atcgctgcaa tttcgtgggt gtcgtttggt tatctgtgaa gcagccaagc caagctattg   240
ttatgaaaat tgtcgtctgt aagcatgtga acttccgacg ttgccacatg ctggatcatc   300
tgaataagta agtatgcagc tctaggtgtc agctgcgtct                               340

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<210> 581
 <211> 344
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 581

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tgggaacaca gcatgtgcc aaggaaatgac aaagctctct ggcattctctg aaatcatccc   60
cgagatggag atctgcgatt tgacttgaac cctgtggcta ctccatgaat gcgatccatg   120
gctctgcaat ctccacaatc catgtgacgc ccgaggacgg gttcagccaa gccagnaatg   180
aggctaaggg cctngaagcc actgctctgt cttatgggtga ccttgtcaag agggtccttc   240
ggtgtcttgg ccctcgggag ttttccgttg ccgtgaccat cttcggcggg cgtggccatg   300
ccgggacatg gggaaangca ttggtgcaga ggtctatgac tgca                               344

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<210> 582
 <211> 300
 <212> DNA
 <213> Zea mays

<400> 582

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atctctctgg cctgtgtctt cctgataatc gaccagttcc ccagtcttgc tccttgcaact   60
cctccctcct ccattctccag cattgtgttc tgattcacct gctccaatgg ctgttctttc   120
tgctgtgat gcttccccgg tctcagctat cgggtttgag ggctatgaga agcgccttga   180
gatcacattc tctgaggcac ctgtctttgt ggaccctcat gggcgtgggt tgcgtgccct   240
ctccagggcc cagattgact ctgttctgga tcttgacagg tgcacaattg tgtccgagct   300

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<210> 583
 <211> 298
 <212> DNA
 <213> Zea mays

<400> 583

aaggatttcg actcatatgt cctctctgag tcaagcttgt ttatctatcc tctgaagatt 60
 gtcacatcaaga cctgtggcac taccaagctc ctgctcacca ttccaagaat ccttgagctt 120
 gctgaagagc tgtctatgcc acttgctgct gtgaagtact cccgtgggac gttcatcttt 180
 cctggtgcac agccagcccc ccacaggagc ttctctgagg aagttgctgc acttaaccgc 240
 tactttggcg gcctgaaatc tgggtggaat gcttatgtga ttggagatcc agcaagac 298

<210> 584
 <211> 351
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 584

gcttgctgaa gagctgtcta tgccacttgc tgctgtgaag tactcccgtg ggacgttcat 60
 ctttctctggc gcacagccag cccccccaca ggagcttctc tgaggaagtt gctgcactta 120
 accgctactt tggcggcctg aaatctggtg gtaatgctta tgtgattgga gatccagcaa 180
 gatctggaca gaagtggcac gtcttctacg ccaactgagta ccagagcaa ccaatgggta 240
 accttgagat gtgcatgact ggtctggaca agaagaaagc ttgtgtcttt tcaagactaa 300
 tgctgatngg gaacacaaca tgtgccaag gnaatgacna agctctctng c 351

<210> 585
 <211> 291
 <212> DNA
 <213> Zea mays

<400> 585

gtgcttttggc ccctcagagt tttccgttgc cgtgaccatc ttcggcgggc gtggccatgc 60
 cgggacatgg ggaaaggcac ttggtgcaga ggtctatgac tgcaacaaca tgggtggagca 120
 ggagctgcct ggaggcgggc tcctcgtgta ccagagcttc tgtgctgctg aagacgctgt 180
 tgctacctcg cccaaatctg ttttccactg ctttgacggc gagaacgtgg agagtgtctc 240

tcctcctatg aagaaggact acaagctggc taatcttctc tgctgggagg a 291

<210> 586
 <211> 514
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 586

agnnnanatn tgnttttttn gngtgnnnng ananagtaca gcnntaccgg tccggaattc 60
 ccgggctcgac ccacgcgtcc gggagctgcc tggaggcggg ctctctgtgt accagagctt 120
 ctgtgctgct gaagacgctg ntgctacctc gcccaaactct gttttccact gctttgacgg 180
 cgagaacgtg gagagtgtc ctctcctat gaagaaggac tacaagctgg ctaatcttct 240
 ctgctgggag gaggaagcgg atgccatgga ggagaaggcg ggagtgttg atgagtaaga 300
 cgggcttctg gggctgattt gcttctgagt tgtttatttt atatcgtngc aatttcttgg 360
 ttgtcgttng gttattntgn ggaagnagnn aanccaggct attngtaatg aaaanntnnt 420
 tntntaata ntattaactt tnnnatnttn tcaanattct tgatnannnt tantaataan 480
 ttatntaatn tntaaggtnn nannnttnnn ttnt 514

<210> 587
 <211> 299
 <212> DNA
 <213> Zea mays

<400> 587

gggcggcctg aaatctggtg gtaatgctta tgtgattgga gatccagcaa gacctggaca 60
 gaagtggcac gtcttctacg ccactgagta cccagagcaa ccaatggta accttgagat 120
 gtgcatgact ggtctggaca agaagaaagc ttgtgtcttt ttcaagacta atgctgatgg 180
 gaacacaaca tgtgccaagg aaatgacaaa gctctctggc atctctgaaa tcatccccga 240
 gatggagatc tgcgattttg acttcgaacc ctgtggctat ccatgaatgc gatccatgg 299

<210> 588
 <211> 288
 <212> DNA
 <213> Zea mays

<400> 588

gctgcctgga ggcgggctcc tcgtgtacca gagcttctgt gctgctgaag acgctgttgc 60

tacctcgccc aaatctgttt tccactgctt tgacggcgag aacgtggaga gtgctcctcc 120

tcctatgaag aaggactaca agctggctaa tcttctctgc tgggaggagg aagcggatgc 180

catggaggag aaggcgggag tgcttgatga gtaagacggg cttctgggggt cgatttgctt 240

ctgagttggt tattttatat cgtcgcaatt tcgtggttgt cgtttggt 288

<210> 589

<211> 305

<212> DNA

<213> Zea mays

<400> 589

gcttgtttat ctatcctctg aagattgtca tcaagacctg tggcactacc aagctcctgc 60

tcaccattcc aagaatcctt gagcttgctg aagagctgtc tatgccactt gctgctgtga 120

agtactcccg tgggacgttc atctttcctg gcgcacagcc agccccccac aggagcttct 180

ctgaggaagt tgctgcactt aaccgctact ttggcggcct gaaatctggt ggtaatgctt 240

atgtgattgg agatccagca agacctggac agaagtggca gtcttctacg ccaactggagt 300

accca 305

<210> 590

<211> 295

<212> DNA

<213> Zea mays

<400> 590

gggtccttcg gtgctttggc ccctcggagt tttccgttgc cgtgaccatc ttcggcgggc 60

gtggccatgc cgggacatgg ggaaaggcac ttggtgcaga ggtctatgac tgcaacaaca 120

tggtggagca ggagctgcct ggaggcgggc tcctcgtgta ccagagcttc tgtgctgctg 180

aagacgctgt tgctacctcg cccaaatctg ttctccactg ctttgacggc gagaacgtgg 240

agagtgtccc tcctcctatg aagaaggact acaaactggc taatcttcta tgctg 295

<210> 591

<211> 298

<212> DNA

<213> Zea mays

<400> 591

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gcgggagtgct ttgatgagta agacgggctt ctggggtcga tttgcttctg agttgtttat 60
tttatatcgt cgcaatttcg tggttgtcgt ttggttattc tgtgaagcag ccaagccagg 120
ctattgttat gaaaatttgt cgtctgtaag catgtgaact tccgatgttg ccacatgctg 180
gatcagtctg aataagtaag tatgcagctc taggtgggtca gctgcgtcta ccacaatgag 240
catgaacgta tggagaaata tctgtgaacc catttgttta tgaataagat tgtttttt 298
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<210> 592

<211> 320

<212> DNA

<213> Zea mays

<400> 592

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gcctcttgct gctgtgaagt actcccgcg gacgttcac tttcctggcg cacagccagc 60
ccccaccgg agcttctccg aggaagttgc tgtacttaac cgatactttg ggggcctgaa 120
gtctgggtggc aatgcttatg tgattggaga tgcagcaaga ccaggacaga agtggcacat 180
ctactacgcc actgagtacc cagagcaacc aatgggtcaac cttgagatgt gcatgactgg 240
tctggacacg aagaaagctt cagtcttctt caagactaat gctgatggca acacaacatg 300
tgccaaggaa atgacgaagt . 320
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<210> 593

<211> 284

<212> DNA

<213> Zea mays

<400> 593

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tggctactcc atgaatgcga tccatggctc tgcattctcc acaatccatg tgacgcccga 60
ggacggtttc agctacgcca gttacgaggt tatgggcttg gatgccactg ctctgtctta 120
tggtgacctt gtcaagaggg tcctccggtg ctttggcccc tcagagtttt ccgttgccgt 180
gaccatcttc ggggggctg gccatgccgg gacatgggga aaggcacttg gtgcagaggt 240
ctatgactgc aacaacatgg tggagcagga gctgcctgga ggcg 284
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<210> 594

<211> 285
 <212> DNA
 <213> Zea mays
 <400> 594
 gaagttccag tctgctgctt actccaactg cgcgaagaag ccatactgat atcccttttg 60
 gcttcctcat tctagtagtt taggatttct tttctgacac tttgattctg accaatctct 120
 ctggcctgct gcttcctgat aatcgaccag ttccccagtc ttgctccttg cactcctccc 180
 tccatctcca gcattgtggt ctgattcacc tgctccaatg gctgttcttt ctgctgctga 240
 tgcttccccg gtctcagcta tcgggtttga gggctatgag aagcg 285

<210> 595
 <211> 286
 <212> DNA
 <213> Zea mays
 <400> 595
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 gccggagggg ggaagaagtt ccagtctgct gcttactcca actgcgcgaa gaagccatcc 120
 tgatatccct tttggcttcc tcattctagt agtttaggat ttcttttctg acactttgat 180
 tctgaccaat ctctctggcc tgctgcttcc tgataatcga ccagttcccc agtcttgctc 240
 cttgcactcc tccctccatc tccagcattg tgttctgatt cacctg 286

<210> 596
 <211> 289
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations .
 <400> 596
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 gcttactcca actgcgcgaa gaagccatcc tgatatccct tttggcttcc tcattctagt 120
 agtttaggat ttcttttctg acactttgat tctgaccaat ctctctggcc tgctgcttcc 180
 tgataatcga ccagttcccc agtcttgctc cttgcactcc tccctccatc tccagcattg 240
 tgttctgatt cacctgctcc aatggctggt ctttctgctg ctgatgctt 289

<210> 597
 <211> 281
 <212> DNA
 <213> Zea mays

 <400> 597

 agccagcccc ccacaggagc ttctctgagg aagttgctgc acttaaccgc tactttggcg 60
 gcctgaaatc tgggtggaat gcttatgtga ttggagatcc agcaagacct ggacagaagt 120
 ggacagtctt ctacgccact gagtaccag agcaaccaat ggttaacctt gagatgtgca 180
 tgactggtct ggacaagaag aaagcttggtg tctttttcaa gactaatgct gatgggaaca 240
 caacatgtgc caaggaaatg acaaagctct ctggcatctc t 281

<210> 598
 <211> 285
 <212> DNA
 <213> Zea mays

 <400> 598

 gtcctctctg agtcaagctt gtttatctat cctctgaaga ttgtcatcaa gacctgtggc 60
 actaccaagc tctgtctcac cattccaaga atccttgagc ttgctgaaga gctgtctatg 120
 ccacttgctg ctgtgaagta ctcccggtgg acgttcatct ttcttggtgc acagccagcc 180
 cccacagga gcttctctga ggaagttgct gcacttaacc gctactttgg cggcctgaaa 240
 tctggtggta atgcttatgt gattggagat ccagcaagac ctgga 285

<210> 599
 <211> 292
 <212> DNA
 <213> Zea mays

 <400> 599

 cactgctttg tcttatggtg accttgtaa gagggctctc cgggtgcttg gccctcaga 60
 gttttccgtt gccgtgacca tcttcggcgg gcgtggccat gccgggacat ggggaaaggc 120
 acttggtgca gaggtctatg aactgcaaca acatggtgga gcaggagctg cctggaggcg 180
 ggctcctcgt gtaccagagc ttctgtgctg ctgaagacgc tgttgctacc tcgccccaaat 240
 ctgttttcca ctgctttgac ggcgagaacg tggagagtgc tcctcctcct at 292

<210> 600
 <211> 346
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 600

 ggccagcccc ccacaggagc ttctctgagg gaagttgctg cacttaaccg ctactttggc 60
 ggccctgaaat ctggttggtaa tgcttatgtg attggagatc cagcaagacc tggacagaag 120
 tggcacgtct tctacgccac tgagtaccca gagcaaccaa tggttaacct tgagatgtgc 180
 atgactggtc tggacaagaa gaaagcttct gtctttttca agactaatgc tgatgggaac 240
 acagcatgtg ccaaggaaat gacaaagctc tctggcatct ctgaaatcat cccgagtggg 300
 gnctgcgatt gntttgaccc tgtgctccaa atcaatgaac tgtttt 346

<210> 601
 <211> 282
 <212> DNA
 <213> Zea mays

 <400> 601

 acttgctgct gtgaagtact cccgtgggac gttcatcttt cctggtgcac agccagcccc 60
 ccacaggagc ttctctgagg aagttgctgc acttaaccgc tactttggcg gcttgaaatc 120
 tgggtggtaat gcttatgtga ttggagatcc agcaagacct ggacagaagt ggcacgtctt 180
 ctacgccact gagtaccag agcaaccaat ggtaaacctt gagatgtgca tgactgggtct 240
 ggacaagaag aaagcttctg tctttttcaa gactaatgct ga 282

<210> 602
 <211> 288
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 602

 caattgtgtc cgagctctcc aacaaggatt tcgactcata tgcctctctc gactcaagct 60
 tgtttatcta tcctctgaag attatcntca agacctgtgg cactaccaag ctctgtctca 120
 ccattccaag aatccttgag cttgctgaag agctgtctat gccacttgct gctgtgaagt 180
 actcccgtgg gacgttcac tttctgtgtg cacagccagc ccccccacagg agcttctctg 240

aggaagttgc tgcacttaac cgctactttg gcggcctgaa atctggtg 288

<210> 603
<211> 283
<212> DNA
<213> Zea mays

<400> 603

gttccccagt cttgctcctt gcaactcctcc ctccctccatc tccagcattg tgttctgatt 60
cacctgctcc aatggctggt ctttctgctg ctgatgcttc cccggtctca gctatcgggt 120
ttgagggcta tgagaagcgc cttgagatca cattctctga ggcacctgtc tttgtggacc 180
ctcatgggcg tggtttgctg gccctctcca gggcccagat tgactctggt ctggatcttg 240
cacggtgcac aattgtgtcc gagctctcca acaaggattt cga 283

<210> 604
<211> 276
<212> DNA
<213> Zea mays

<400> 604

gctgcactta accgctactt tggcggcctg aaatctggtg gtaatgctta tgtgattgga 60
gatccagcaa gacctggaca gaagtggcac gtcttctacg ccaactgagta cccagagcaa 120
ccaatgggta accttgagat gtgcatgact ggtctggaca agaagaaagc ttgtgtcttt 180
ttcaagacta atgctgatgg gaacacaaca tgtgccaaagg aaatgacaaa gctctctggc 240
atctctgaaa tcatccccga gatggagatc tgcgat 276

<210> 605
<211> 281
<212> DNA
<213> Zea mays

<400> 605

agaaggcggg agtgcttgat gagtaagacg ggcttctggg gtcgatttgc ttctgagttg 60
tttattttat atcgtcgcaa tttcgtggtt gtcgtttggt tattctgtga agcagccaag 120
ccaggetatt gttatgaaaa tttgtcgtct gtaagcatgt gaacttccga tgttgccaca 180
tgctggatca gtctgaataa gtaagtatgc agctctaggt ggtcagctgc gtctaccaca 240

atgagcatga acgtatggag aaatatctgt gaaccattt g 281

<210> 606
<211> 309
<212> DNA
<213> Zea mays

<400> 606

acctgcacca atggctgttc tttctgctgc tgggtgctccc ccggcctcag ctatcggggtt 60
tgagggctat gagaagcgcc ttgagatcac attctctgag gcacctgtct ttgtggaccc 120
ccatggcagc ggtttgctg ccctctccag gtcccagatt gactctgttc tggatcttgc 180
acggtgcacg atcgtgtccg agctctccaa caaggatttt gactcctatg ttctctccga 240
gtcaagcttg ttcattctatc ctctgaagat tgtcatcaag acctgtggca ctaccaagct 300
cctgctcac 309

<210> 607
<211> 276
<212> DNA
<213> Zea mays

<400> 607

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tcatgggcgt ggtttgctg ccctctccag ggcccagatt gactctgttc tggatcttgc 120
acggtgcaca attgtgtctg agctctccaa caaggatttc gactcatatg tcctttctga 180
gtcaagcttg tttatctatc ctctgaagat tgtcatcaag acctgtggca ctaccaagct 240
cctgctcacc attccaagaa tccttgagct tgctga 276

<210> 608
<211> 282
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 608

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taagacgggc ttctgggggc gatttgcttc tgagttgttt attttcatat cgtcgcaatt 120

tcgtggttgt cgtttggtta ttctgtgaag cagccaagcc aggctattgt tatgaaaatt 180
 tgctgtctgt aagcatgtga acttccgatg ttgccacatg ctggatcagt ctgaataagt 240
 aagtatgcag ctctaggtgg tcagctgcgt ctaccacaat ga 282

<210> 609
 <211> 274
 <212> DNA
 <213> Zea mays

<400> 609
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 atgggcttgg atgccactgc tctgtcttat ggtgaccttg tcaagagggg cctccgggtgc 120
 tttggcccct cagagttttc cgttgccgtg accatcttcg gcgggcgtgg ccatgccggg 180
 acatggggaa aggcacttgg tgcagaggtc tatgactgca acaacatggg ggagcaggag 240
 ctgcctggag gcgggctcct cgtgtaccag agtt 274

<210> 610
 <211> 286
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 610

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 gtggcaaaaa gtctagcagt agtcgttcta tgatgtatga agctcccctt ggctacagca 120
 ttgaggacgt tcgacctgcc ggagggtgaa gaagttccag tctgctgctt actccaactg 180
 cgcaagaag ccatcctgat atcccttttg gcttcctcat tctagtagtt taggatttct 240
 tttctgacac tttgattctg accaatctct ctggcctgcn gcttcc 286

<210> 611
 <211> 324
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 611

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cntttcaaga ctaatgctga tgggaacaca acatgtgcc aaggaaatgac aaagctctct 120
 ggcatctctg aaatcatccc cgagatggag atctgcgatt ntgacttcga accctgtggc 180
 tactccatga atgcgatcca tgggnnnnng aactccacaa tccatgtgac gcccgaggac 240
 ggtttcagct acgccagtta cgaggttatg ggctggatgc cactgctctg ctatggtgac 300
 ctgtcaagag ggnccctccgg tgct 324

<210> 612
 <211> 282
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 612

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 ctctccctc catctccagc attgtgttct gattcacctg ctccaatggc tgttctttct 120
 gctgctgatg cttcnccggn ctcagctatc gggtttgagg gctatgagaa gcgccttgag 180
 atcacattct ctgaggcacc tgtctttgtg gaccctcatg ggcggtggtt gcgtgccctc 240
 tccagggccc agatgactct gttctggatc ttgcacggtg ca 282

<210> 613
 <211> 279
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 613

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 aagttgctgc acttaaccgc tactttggcg gcctgaaatc tggtggtaat gcttatgtga 120
 ttggagatcc agcaagacct ggacagaagt ggcacgtctt ctacgccact gagtaccag 180
 agcaaccaat ggttaacctt gagatgtgca tgactggtct ggacaagaag aaagcttgtg 240
 tctttttcaa gactatgctg atgggaacac nacatgtgc 279

<210> 614
 <211> 278
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 614

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gttcttttctg ctgctgatgc ttccccggtc tcagctatcg ggtttgaggg ctatgagaag   60
cgccttgaga tcacattctc tgaggcacct gtctttgtgg accctcatgg gcgtgggttg   120
cntgccctct ccagggccca gattgactct gttctggatc ttgcacgggtg cacaattgtg   180
tccgagcnct ccaacaagga ttctgactca tatgtcctct ctgagtcaag cntgtttatc   240
tattcctctga agattgtcat caagacctgt ggcactac                               278
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<210> 615
 <211> 279
 <212> DNA
 <213> Zea mays

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<400>        615
ctgcctggag gcgggctcct cgtgtaccag agcttctgtg ctgctgaaga cgctgttgct   60
accttcgccc aaatctgtat tccactgctt tgacggcgag aacgtggaga gtgctcctcc   120
tcctatgaag aaggactaca agctggctaa tcttctctgc tgggaggagg aagcggatgc   180
catggaggag aaggcgggag tgcttgatga gtaagacggg cttctggggg cgatttgctt   240
ctgagttggt tattttatat cgtcgcaatt tcgtgggtg                               279
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<210> 616
 <211> 429
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 616

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ctgtctatgc cacttgctgc tngaaagtac tcccgaggga cgttcatntt tcctgggtgca   180
cagncagccc nncacaggag cttctntgag gaagttgctg cacttaaccg ctactttggc   240
ggcctgaaat ctggtggtaa tgcttatgtg attggagatc cagcaagacc tgnacagaag   300
tggcacccgc ttctacncca ctgaagtacc canagcaaac caatgggtta ccttgagatg   360
tgcatgactt gntctggaca agaaagaaaag cttntggctt tttnaagact aatnctgatg   420
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429

<210> 617
<211> 277
<212> DNA
<213> Zea mays

<400> 617

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aaggaaatga caaagctctc tggcatctct gaaatcatcc ccgagatgga gatctgcgat 120
tttgactttg aaccctgtgg ctactccatg aatgcgatcc atggctctgc attctctaca 180
atccatgtga cgcccagga cggtttcagc tatgccagtt acgaggttat gggcttggat 240
gccactgctc tatcttatgg tgaccttgctc aagaggg 277

<210> 618
<211> 473
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 618

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tcccccanat ctgttttcca ctgctttgac ggcgagaacg tggagagtgc tcctcctcta 120
tgaagaagga ctacaagctg gctaattctt tctgctggga ngaggaagcg gatgccagga 180
ggagaangcg ggagtgttg atgagtaaga cgggcttctg gggtcgattt gcttctagtt 240
gtttatttta tatcgctgca atttcgtggg tgctgcttgg ttaatctgtg aagcaccaaa 300
ccaagctatt gttaagaaaa tttntcctcc ggtaaccagt nnaacttcca aagttccaaa 360
ngcngggntt atcccnaaaa attnntntnc nccccccacg gnggggcanc tgctntntca 420
aanatgagca tgaacttttg gggaaaaaan atnttgggng ccannntttt ttt 473

<210> 619
<211> 264
<212> DNA
<213> Zea mays

<400> 619

cttgacggg gcacaattgt gtctgagctc tccaacaagg atttcgactc atatgtcctt 60

tctgagtcaa gcttggttat ctatcctctg aagattgtca tcaagacctg tggcactacc 120
aagctcctgc tcaccattcc aagaatcctt gagcttgctg aagagctgtc tatgccactt 180
gctgctgtga agtactcccg tgggacgttc atctttcctg gcgcacagcc agccccccac 240
aggagcttct ctgaggaagt tgct 264

<210> 620
<211> 275
<212> DNA
<213> Zea mays

<400> 620

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tgggaacaca gcatgtgcc aaggaaatgac aaagctctct ggcattctctg aaatcatccc 120
cgagatggag atctgcgatt ttgactttga accctgtggc tactccatga atgcgatcca 180
tggctctgca ttctctacaa tccatgtgac gcccaggagc ggtttcagct atgccagtta 240
cgaggttatg ggcttggatg ccaactgctct atctt 275

<210> 621
<211> 266
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 621

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acattctctg aggcacctgt ctttgtggac cctcatgggc gtggtttgcn tgccctctcc 120
agggcccaga ttgactctgt tctggatctt gcacggtgca caattgtgtc tgagctctcc 180
aacaaggatt tcgactcata tgtcctttct gagtcaagct tgtttatcta tcctctgaag 240
attgtcatca agacctgtgg cactac 266

<210> 622
<211> 278
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 622

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ctctanctta tggtagacctt gtcaagaggg tcctccggtg ctttggcccc tcggagtttt 120
ccgttgccgt gaccatcttc ggcgggctg gccatgccgg gacatgggga aaggcactag 180
gtgcagaggt ctatgactgc aacaacatgg tggagcagga gctgcctgga ggcgggctcc 240
tcgtatacca gagcttctgc gctgctgaag acgctgtt 278

<210> 623
<211> 308
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 623

cggggaatca ggggtttcac acatagcttc gtcgatttga atttgatgta ctaatggant 60
ctaaggggtg caaaaagtct agcagtagtc gttctatgat gtatgaagct ccccttggtc 120
acagcattga ggacgttcga cctgccggag ggtgaagaag ttccagtctg ctgcttactc 180
caactgcggc gaagaagcca tcctgatata ccttttggtc tcctcattct agtagtttag 240
gattctttct gacactttga ttctgaccaa tctctctggc ctgctgttcc ggataatcga 300
ccagttcc 308

<210> 624
<211> 402
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 624

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nccttncaact cctccnnct ccctctccag cattgtgttc tgattcacct gctccaatgg 120
ctgttctttc tgctgctgat gcttccccgg tctcagctat cgggtttgag ggctatgaga 180
agcgccttga gatcacattc tctgaggcac ctgtctttgt ggacccttat ggcggtggtt 240
tgcgtagcct ttncagggcc nagattgact ctgttntgga tcttgnacgt nttcacannt 300
gngtgngngc nanntaaaag gatntnntct natatnnttt ntttanttan gnntttnatn 360
nnnntttaan ttnntntat nntttntnt tantaattnn tt 402

<210> 625
 <211> 407
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 625

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 gggncgaccc acgcntccga tgcgatccat ggctctgcat tctccacaat ccatgtgacg 120
 cccgaggacn gtggnnnngct atgccagtta tgaggttatg ggcttggtatg ccactgctct 180
 gtcttatggt gaccttgtca agagggtcct tcggtgcttt ggcccctcgg agttttccgt 240
 tgccgtgacc atcttcggcg gncgtggcca tgccgggaca tggggaaagg cacttggtgc 300
 agaggtctat gactgcanca acatggtgga gcagganctg cctggaggcg gncnncnnnn 360
 gtaccananc ttntgngctn ntnaanacnc tnnnnnnann nnnnnna 407

<210> 626
 <211> 273
 <212> DNA
 <213> Zea mays

<400> 626

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 tccagtctgc tgcttactcc aactgcgcga agaagccatc ctgatatccc ttttggttcc 120
 ctcatcttag tagtttagga tttcttttct gacactttga ttctgaccaa tctctctggc 180
 ctgctgcttc ctgataatcg accagttccc cagtcttgct ccttgcactc ctccctccat 240
 ctccagcatt gtgttctgat tcacctgctc caa 273

<210> 627
 <211> 292
 <212> DNA
 <213> Zea mays

<400> 627

catggtggag caggagctgc ctggaggcgg gctcctcgtg taccagagct tctgtgctgc 60
 tgaagacgct gttgctacct cgcccaaata tgttttccac tgctttgacg gcgagaacgt 120

ggagagtgct cctcctccta tgaagaagga ctacaagctg gctaattctt tctgctggga 180
ggaggaagcg gatgccatgg aggagaaggc gggagtgtt gatgagtaag acgggcttct 240
ggggtcgatt tgctctgagt tgtttattta tatcgctgca attcgtgggt gt 292

<210> 628
<211> 311
<212> DNA
<213> Zea mays

<400> 628
cctggcagtc ctccctcctc catctccagc gttgtgttct gactcacctg caccaatggc 60
tggtctttct gctgctggtg ctcccccggc ctgagctatc gggtttgagg gctatgagaa 120
gcgccttgag atcacattct ctgaggcacc tgtctttgtg gacccccatg gcagcggttt 180
gcgtgccctc tccaggcccc agattgactc tggtctggat cttgcacggg gcacgatcgt 240
gtccgagctc tccaacaagg attttgactc ctatgttctc tccgagtcaa gcttgttcat 300
ctatcctctg a 311

<210> 629
<211> 272
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 629

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nttattttat atcgctgcaa tttcncggtt gtcgtttngt tattctgtga agcagccang 120
ccaggctatt gttatgaaaa tttgtcgtct gtaagcatgt gaacttccga tgttgccaca 180
tgctggatca gtctgaataa gtaagtatgc ngctctaggt ggtcagctgc gtctnccaca 240
atgagcatga acgtatggag aaatatctgt ga 272

<210> 630
<211> 272
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 630

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 tgacggcgag aacgtggaga gtgctcctcc tcctatgaag aaggactaca aactagctaa 120
 tcttctctgc tggaggagg aagcggatgc catggaggag aaggcgggag tncctgatga 180
 gtaagacggg cttctggtgt cgatttgctt ctgagttggt tattttatat cgtcgcaatt 240
 tcgtggttgt cgtttggtta ttctgtgaag ca 272

<210> 631
 <211> 263
 <212> DNA
 <213> Zea mays

<400> 631

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 tcaccattcc aagaatcctt gagcttgctg aagagctgtc tatgccactt gctgctgtga 120
 agtactcccg tgggacgttc atctttcctg gcgcacagcc agccccccac aggagcttct 180
 ctgaggaagt tgctgcactt aaccgctact ttggcggcct gaaatctggt ggtaatgctt 240
 atgtgattgg agatccagca aga 263

<210> 632
 <211> 272
 <212> DNA
 <213> Zea mays

<400> 632

gacaagaaga aagcttctgt ctttttcaag actaatgctg atgggaacac agcatgtgcc 60
 aaggaaatga caaagctctc tggcatctct gaaatcatcc ccgagatgga gatctgcgat 120
 tttgactttg aaccctgtgg ctactccatg aatgcgatcc atggctctgc attctccaca 180
 atccatgtga cgcccagga cggtttcagc tatgccagtt atgaggttat gggcttggat 240
 gccactgctc tgtcttatgg tgacctgtgc aa 272

<210> 633
 <211> 295
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 633

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 agaagcgcct tgagatcaca ttctctgagg cacctgtctt tgtggaccct catgggcgtg 120
 gtttgcgtnc cctctccagg gccagattg nctntgttct ggatcttgca cgggtgcacaa 180
 tgtgtctgag ctctccaaca aggatttcga ctcatatgtc ctttctgagt caagcttggt 240
 tatctatcct ctgaagattg tcatcaagac ctgtncatac cangtcctg ctcac 295

<210> 634
 <211> 292
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 634

gattgtcatc aagacctgtg gcactaccaa gtcctgtctt caccattoca agaatccttg 60
 agcttgctga agagctgtct atgccacttg ctgctgtgan gtaactcccg tgggacgttc 120
 atctttcctg gcgcacagcc agccccccac aggagcttct ctgaggaagt tgctgcactt 180
 aaccgctact ttggcggcct gaaatctggt ggtantgctt atgtgattgg agatccagca 240
 agacctggtc agaantggca cgtcttacta cgccactgag taaccagagc aa 292

<210> 635
 <211> 270
 <212> DNA
 <213> Zea mays

<400> 635

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 gctccccttg gctacagcat tgaggacgtt cgacctgccg gaggggaag aagttccagt 120
 ctgctgctta ctccaactgc gcgaagaagc catcctgata tcccttttgg cttcctcatt 180
 ctagtagttt aggatttctt ttctgacact ttgattctga ccaatctctc tggcctgctg 240
 cttcctgata atcgaccagt tccccagtct 270

<210> 636
 <211> 270
 <212> DNA
 <213> Zea mays

<400> 636

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aagttccagt ctgctgctta ctccaactgc gcgaagaagc catcctgata tcccttttgg 120

cttcctcatt ctagtagttt aggatttctt ttctgacact ttgattctga ccaatctctc 180

tggcctgctg cttcctgata atcgaccagt tccccagtct tgctccttgc actcctccct 240

ccatctccag cattgtgttc tgattcacct 270

<210> 637

<211> 267

<212> DNA

<213> Zea mays

<400> 637

cagtcttgct ccttgcactc ctccctcctc catctccagc attgtgttct gattcacctg 60

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gctatgagaa gcgccttgag atcacattct ctgaggcacc tgtctttgtg gaccctcatg 180

ggcgtggttt gcgtgccctc tccagggccc agattgactc tgttctggat cttgcacggg 240

gcacaattgt gtccgagctc tccaaca 267

<210> 638

<211> 281

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 638

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aatctgtttt ccaactgcttt gacggcgaga acgtggagag tgctcctcct cctatgaaga 120

aggactacaa gctggctaata cttctctgct gggaggagga agcggatgcc atggaggaga 180

aggcgggaggt gcttgatgag taagacgggc ttctggggtc gatttgcttc tgagttgttt 240

atatttatatc gtcgcaattc gtggntgtcg ttggttattc t 281

<210> 639

<211> 259

<212> DNA

<213> Zea mays

<400> 639

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gagcaaccaa tggttaacct tgagatgtgc atgactggtc tggacaagaa gaaagcttgt 120
gtctttttca agactaatgc tgatgggaac acaacatgtg ccaaggaaat gacaaagctc 180
tctggcatct ctgaaatcat ccccgagatg gagatctgcg attttgactt cgaaccctgt 240
ggctactcca tgaatgcga 259
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<210> 640

<211> 298

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 640

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cttgagatca cattctctga ggcacctgtc tttgtggacc cccatggcag cggtttgctg 60
gccctctcca ggtcccagat tgactctgtt ctggatcttg cacggtgcac gatcgtgtcc 120
gagctctcca acaaggattt tgacncctat gttctctccg agtcaagctt gttcatctat 180
cctctgaaga ttgtcatcaa gacctgtggc actaccaagc tcctgtctac aattccaagg 240
atcctagagc ttgctgaaga gctgtctatn cctcttgctg ctgtgaagta ctcccgcg 298
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<210> 641

<211> 271

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 641

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gacctggaca gaagtggcac gtcttctacg ccaactgagta cccagagcaa ccaatgggta 120
accttgagat gtgcatgact ggtctggaca agaagaaagc ttctgtcttt tnccaagact 180
aatgctgatg ggaacacagc atgtgccaag gaaatgacaa agctctctgg catctctgaa 240
atcatccccg agatggagat ctgcgatttt g 271
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<210> 642

<211> 271

<212> DNA

<213> Zea mays

<400> 642

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ccaagacctg tggcactacc aagctcctgc tcaccattcc aagaatcctt gagcttgctg 60
acagagctgt ctatgccact tgctgctgtg aagtactccc gtgggacggt catctttcct 120
ggtgcacagc cagcccccca caggagcttc tctgaggaag ttgctgcact taaccgctac 180
tttggcggcc tgaaatctgg tggtaatgct tatgtgattg gagatccagc aagacctgga 240
cagaagtggc acgtcttcta cgccactgag t 271
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<210> 643

<211> 273

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 643

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atggggaaaag gcacttggtg cagaggtcta tgactgcaac aacatgggtg agcaggagct 120
gcctggaggc gggctcntcg tgtaccagag cttctgtgct gctgaagacg ctgttgctac 180
ctcgcccaaa tctgttttcc actgctttga cggcgagaac gtggagagtg ctcctcctcc 240
tatgaagaag gactacaagc tggctaattct tct 273
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<210> 644

<211> 257

<212> DNA

<213> Zea mays

<400> 644

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tgctttggcc cctcagagtt ttccgttgcc gtgaccatct tcggcgggcg tggccatgcc 120
gggacatggg gaaaggcact tgggtgcagag gtctatgact gcaacaacat ggtggagcag 180
gagctgcctg gaggcgggct cctcgtgtac cagagcttct gtgctgctga agacgctgtt 240
gctacctcgc ccaaatac 257
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<210> 645

<211> 310
 <212> DNA
 <213> Zea mays

 <400> 645

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 tctgagtcaa gcttggttat ctatcctctg aagattgtca tcaagacctg tggcactacc 120
 aagctcctgc tcaccattcc aagaatcctt gagcttgctg aagagctgtc tatgccactt 180
 gctgctgtga agtactcccg tgggacgttc atctttcctg gtgcacagcc agccccccac 240
 aggagcttct ctgaggaagt tgctgcactt aaccgctatt tggggcctga aatctggtgg 300
 taatgcttag 310

<210> 646
 <211> 278
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 646

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 tntattttat atcgtcgcaa tttcgtggtt gtcgtttggt tattctgtga agcagccaag 120
 ccaggctatt gttatgaaaa tttgtcgtct gtaagcatgt gaacttcoga tgttgccaca 180
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 atgagcanng acntnntgga gaaatatctg tgaacccc 278

<210> 647
 <211> 257
 <212> DNA
 <213> Zea mays

 <400> 647

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 gctacctgcg ccaaattctgt tttccactgc ttgacggcg agaactgga gagtgctcct 120
 cctcctatga agaaggacta caagctggct aatcttctct gctgggagga ggaagcggat 180
 gccatggagg agaaggcggg agtgcttgat gagtaagacg ggcttctggg gtcgatttgc 240
 ttctgagttg ttaattt 257

<210> 648
 <211> 259
 <212> DNA
 <213> Zea mays

 <400> 648

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 actacaaact ggctaattctt ctatgctggg aggaggaagc ggatgccatg gaggagaagg 180
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 ttatatcgtc gcaatttcg 259

<210> 649
 <211> 259
 <212> DNA
 <213> Zea mays

 <400> 649

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 tgggtggagca ggagctgcct ggaggcgggc tcctcgtgta ccagagcttc tgtgctgctg 180
 aagacgtgtg tgctacctcg cccaaatctg ttttccactg ctttgacggc gagaacgtgg 240
 agagtgtcc tcctcctat 259

<210> 650
 <211> 256
 <212> DNA
 <213> Zea mays

 <400> 650

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 gggacatggg gaaaggcact tgggtgcagag gtctatgact gcaacaacat ggtggagcag 180
 gagctgcctg gaggcgggct cctcgtgtac cagagcttct gtgctgctga agacgtgtt 240
 gctacctcgc ccaaat 256

<210> 651
 <211> 267
 <212> DNA
 <213> Zea mays

<400> 651

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 atccccgaga tggagatctg cgattttgac tttgaaccct gtggctactc catgaatgcg 120
 atccatggct ctgcattctc cacaatccat gtgacgcccg aggacggttt cagctatgcc 180
 agttatgagg ttatgggctt ggatgccact gctctgtctt atggtgacct tgtcaagagg 240
 gtccttcggt gctttggccc ctcgag 267

<210> 652
 <211> 531
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 652

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 ccacgcgtcc ggttgccaaa gaattccctc ccctagccgc cgccgccgct cgtctccctg 120
 agaggtgccg ggaccgagga tttggccgag ttctaggtag agaatcggtt ttacttgtct 180
 cagcccgggg tctgctgcgt ctggtggtgg tgaaggggag aaattcgtga gatctgttcc 240
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 tgatgtacta atggagtcta aggggtggcaa aaagtctagc agtagtcgtt ctatgatgta 360
 tgaagctccc cttggctaca gcattgagga cgttcgacct gcccgagggc gtgaagaagt 420
 tccagtctgc tgcttactcc aactgcgcga agaagccatc ctgatatccc ttttggcttc 480
 ctcattctag tagtttagga tttcttttct gacactttga ttctgaccaa a 531

<210> 653
 <211> 279
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 653

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tctgctgctt actccaactg cgccaagaag ccatacctgnt atcccttttg gcttctcat 120
tctagtagtt taggatttct tttctgacac tttgattctg accaatctct ctgggcctgc 180
tgcttctga taatcgacca gttccccagt cttgctcctt gcatcctccc tccatctcca 240
gcattgtggt ctgattcacc tgctccaatg gctgttctt 279

<210> 654
<211> 488
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 654

ttcttttagcc gncnnctca cnacanagnc tcgtnnntcn ntacaanccn ctanactaat 60
cctnttagcg tggccatgcc gggacatggg gaaaggcact tgggtgcagag gtctatgatg 120
caacaacatg gtggagcang agctgcctgg aggcgggctc ctctgtacc aaagctttgt 180
nctgntgaag acgcngttgc tanctcgccc aaatccgttt tccantgntt tgacnggaaa 240
acnttganaa tntctctcct cctangaaga aagantacaa actggntaat cttctanctg 300
ggangaggaa acngattccn nggnngagaa agcgggagtg cctgatnngt attaaggntt 360
ctggggncna ttttctctn agttngtann ttttaagcnt cccaanattc cccgggtgct 420
nnnttggggg nntcnnnng gananncccc nccccgntn tttntgaaa anttncccc 480
nccgnnng 488

<210> 655
<211> 252
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 655

gcgtgggttg cgtgccctct ccagggccca gattgactct gntctggatc ttgcacggtg 60
cacaattgtg tctganctct ccaacaagga tttcgactca tatgtccttt ctgagtcaag 120
cttgtttatc tctcctctga agattgtcat caagacctgt ggcactacca agctcctgct 180
caccattcca agaatccttg agcttgctga agagctgtct atgccacttg ctgctgtgaa 240

gtactcccgt gg

252

<210> 656

<211> 282

<212> DNA

<213> Zea mays

<400> 656

gcgggacgtt catctttcct ggcgcacagc cagcccccca ccggagcttc tccgaggaag 60
ttgctgtact taaccgatac tttggggggcc tgaagtctgg tggcaatgct tatgtgattg 120
gagatgcagc aagaccagga cagaagtggc acatctacta cgccactgag taccagagc 180
aaccaatggc caaccttgag atgtgcatga ctggtctgga cacgaagaaa gcttcagtct 240
tcttcaagac taatgctgat ggcaacacaa catgtgccaa gg 282

<210> 657

<211> 250

<212> DNA

<213> Zea mays

<400> 657

atcaagacct gtggcactac caagctcctg ctcaccattc caagaatcct tgagcttgct 60
gaagagctgt ctatgccact tgctgctgtg aagtactccc gtgggacgtt catctttcct 120
ggcgcacagc cagcccccca caggagcttc tctgaggaag ttgctgcact taaccgctac 180
tttggcggcc tgaaatctgg tggtaatgct tatgtgattg gagatccagc aagacctgga 240
cagaagtggc 250

<210> 658

<211> 261

<212> DNA

<213> Zea mays

<400> 658

gtctttgtgg acctcatggg cgtggtttgc gtgccctctc cagggcccag attgactctg 60
ttctggatct tgcacggtgc acaattgtgt ctgagctctc caacaaggat ttcgactcat 120
atgtcctttc tgagtcaagc ttgtttatct atcctctgaa gattgtcatc aagacctgtg 180
gcactaccaa gctcctgctc accattccaa gaatccttga gcttgctgaa gagctgtcta 240

tgccacttgc tgctgtgaag t 261

<210> 659
 <211> 261
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 659

gcaagacctg gacagaagtg gcacgtcttc tacgccactg agtaccaga gcaaccaatg 60
 gttaaccttg agatgtgcat gactggctctg gacaagaaga aagcttgtgt ctttttcaag 120
 actaatgctg atgggaacac aacatgtgcc aaggaaatga caaagctctc tggcatctct 180
 gaatcatccc ngagatggag atctgctgatt tngacttoga accctgnggc tactccatga 240
 ntgcgatcca tggctctgca t 261

<210> 660
 <211> 454
 <212> DNA
 <213> Zea mays

<400> 660

caaagaattc cctcccctag ccgccgccgc cgctcgtctc cctgagaggt gccgggaccg 60
 aggaactggc cgagttctag gtagagaatc ggttttgctt gtctcagcac ggggtctgct 120
 gcgtctggtg gtggtgaagg ggagaaaattc gtgagatctg ttccggatca ggcgtgctgag 180
 ctccgggaatc aggggtttca cacatagctt cgctcgattg aatttgatgt actaatggag 240
 tctaagggtg gcaaaaagtc tagcagtagt cgttccatga tgtatgaagc tccccttggc 300
 tacagcattg aggacgttcg acctgccgga ggcgtgaaga agttccagtc tgctgcttac 360
 tccaactgctg cgaagaagcc atcctgatat cccttttggc ttccctcattc tagtaagttt 420
 aggatttctt ttctgacact ttgattctga ccca 454

<210> 661
 <211> 248
 <212> DNA
 <213> Zea mays

<400> 661

ccagcccccc acaggagctt ctctgaggaa gttgctgcac ttaaccgcta ctttggcggc 60
 ctgaaatctg gtggtaatgc ttatgtgatt ggagatccag caagacctgg acagaagtgg 120
 cacgtcttct acgccactga gtaccagag caaccaatgg ttaaccttga gatgtgcatg 180
 actggtctgg acaagaagaa agcttgtgtc tttttcaaga ctaatgctga tgggaacaca 240
 acatgtgc 248

<210> 662
 <211> 295
 <212> DNA
 <213> Zea mays

<400> 662
 ctgagatgga gatctgtgat ttgacttcg aacctgcgg ctactccatg aatgcaatcc 60
 atggctctgc gttctccacg atccatgtga cgctgagga tgggttcagc tacgccagtt 120
 atgaggttat gggcttggat gccactgccc tgtcttacgg tgaccttgc aagaggggtcc 180
 ttgggtgctt cgccccctcg gaattttctg tcgccgtgac catcttcggc gggcggggcc 240
 aagctgggac atggggaaag gaacttgggtg cggaggctta tgactgcaac aacat 295

<210> 663
 <211> 247
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 663

catggtggag caggagctgc ctggaggcgg gctcctcgtg taccagagct tctgtgctgc 60
 tgaagacgct gttgctacct cgcccaaadc tgttttccac tnctttgacg gcgagaacgt 120
 ggagagtgc ctcctccta tgaagaagga ctacaagctg gctaattctt tctgctggga 180
 ggaggaagcg gatgccatgg aggagaaggc gggagtgcct gatgagtaag acgggcttct 240
 ggggtcg 247

<210> 664
 <211> 254
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<400> 664

tcttggcgca cagccagccc cccacaggag cttctctgag gaagttgctg cacttaaccg 60

ctactttggc ggcctgaaat ctggtggtaa tgcttatgtg attggagatc cagcaagacc 120

tggacagaag tggcacgtct tctacgccac tgagtacca gagcaaccaa tggttaacct 180

tgagatgtgc atgactggtc tggacaagaa gnnagcttgt ggtcttttca agactaatgc 240

tgatgggaac acaa 254

<210> 665
 <211> 253
 <212> DNA
 <213> Zea mays

<400> 665

gtttcagcta tgccagttat gaggttatgg gcttggatgc cactgctctg tcttatggtg 60

accttgtcaa gagggtcctt cggtgctttg gcccctcgga gttttccgtt gccgtgacca 120

tcttcggcgg gcgtggccat gccgggacat ggggaaaggc acttgggtgca gaggtctatg 180

actgcaacaa catggtggag caggagctgc ctggaggcgg gctcctcgtg taccagagct 240

tctgtgctgc tga 253

<210> 666
 <211> 248
 <212> DNA
 <213> Zea mays

<400> 666

ctgctgtgaa gtactcccgt gggacgttca tctttcctgg tgcacagcca gccccccaca 60

ggagcttctc tgaggaagtt gctgcactta accgctactt tggcggcctg aaatctgggtg 120

gtaatgctta tgtgattgga gatccagcaa gacctggaca gaagtggcac gtcttctacg 180

ccactgagta cccagagcaa ccaatggta accttgagat gtgcatgact ggtctggaca 240

agaagaaa 248

<210> 667
 <211> 291
 <212> DNA
 <213> Zea mays

ctgacacttt gattctgacc aatct

445

<210> 670

<211> 276

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 670

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tcanctatcg ggtttgaggg ctatgagaag cgccttgaga tcacattctc tgaggcacct 120
gtcttgtgga ccctcatggg cgtgggttgn gtgcnctctc cagggnccag attgactctg 180
ttctggatct tgcacgggtgc acaatgtgtc cgagctctcc aacaaggatt tcgactcana 240
tgtcctctc tgagtcaagc ntgtntatct atccnc 276

<210> 671

<211> 283

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 671

tctaaggggtg gcaagaagtc tagcagtagt cgttccatga tgtatgaagc tccccttggc 60
tacagcattg aggacgttcg acctgccgga gggcgaagaa gttccagtct gctgcttact 120
ccaactgcgc aaagaagcca tctgatatc ccttttggn tctcgttct agtagtttag 180
gatttctttt ctgacacttc gnttcttacc aatccccctg gcctgctgct ttcctgacaa 240
tcgaccagtt cccagtcctt gtcctctgca gtcctccctc ctc 283

<210> 672

<211> 284

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 672

gacactttga ttctgnncca atctctctgg cctgctgctt cctgataatc tnnccagttt 60
ccccagtcctt gtccttnga gtcctccct ccactccag cattgtgttc tgattcacct 120

gctccaatgg ctgttctttc tgctgctgat gttccccggt ctcagctatc gggtttgagg 180
gctatgagaa ggcgcttgag atcacattct ctgaggcacc tgtctttgtg gaccctcatg 240
ggcgtgggtt ggcgtgccctc tcaagggccc agattgactc tggt 284

<210> 673
<211> 443
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 673

ggaggaagcg gatgccatgg angagantgc gggagtgcct gatgagtaag acggacnggn 60
gaggtgcgat ttgcttctga gttggttatt ttatatcgtc gcaatttcgt ggttgctggt 120
tggttattct gngaagcanc caagccaggc tattgntatg aaaatttgtc gtntgtaagc 180
atgtgaactt ncgatgttgc cacatgctgg atcagtctga ataagtaagt atgcagctct 240
aggtggtcag ntgnngntac cacaatgagc atgaactgta tggagaaata tntgtgaacc 300
cattttggnt atgaattaca annngctttt tngaaaaaan aatactggcg gnntntgttc 360
aanaaatggg tttgagcttt nnccttngta tcttttttga agaaccggtc taattgacgc 420
ttaaattcnc atggagtggg naa 443

<210> 674
<211> 254
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 674

ccgttgccgt gaccatcttc ggcgggctg gccatgccgg gacatggggg naggcacttg 60
gtgcagaggt ctatgactgc aacaacatgg tggagcagga gctgcctgga ggcgggctcc 120
tcgtgtacca gagcttctgt gctgctgaag acgctgttgc tacctcgccc aaatctgttt 180
tccactgctt tgacggcgag aacgtggaga gtgctcctcc tcctatgaag aaggatacaa 240
gctggctaatt cttc 254

<210> 675
<211> 272
<212> DNA

<213> Zea mays

<400> 675

ctgaagtctg gtggcaatgc ttatgtgatt ggagatgcag caagaccagg acagaagtgg 60
cacatctact acgccactga gtaccagag caaccaatgg tcaaccttga gatgtgcatg 120
actggtctgg acacgaagaa agcttcagtc ttcttcaaga ctaatgctga tggcaacaca 180
acatgtgcca aggaaatgac gaagctctct ggtatctctg aaattatccc tgagatggag 240
atctgtgatt ttgacttcga accctgcggc ta 272

<210> 676

<211> 240

<212> DNA

<213> Zea mays

<400> 676

atccagcaag acctggacag aagtggcacg tcttctacgc cactgagtac ccagagcaac 60
caatggttaa ccttgagatg tgcatgactg gtctggacaa gaagaaagct tgtgtctttt 120
tcaagactaa tgctgatggg aacacaacat gtgccaagga aatgacaaag ctctctggca 180
tctctgaaat catccccgag atggagatct gcgattttga cttcgaaccc tgtggctact 240

<210> 677

<211> 243

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 677

gctgctgtga agtactcccc tgggacgttc atctttcctg gcgcacagcc agccccccac 60
aggagcttct ctgaggaagt tgctgcactt aaccgctact ttggcggcct ganatctggg 120
ggtaatgctt atgtgattgg agatccagca agacctggac agaagtggca cgtcttctac 180
gccactgagt acccagagca accaatgggt aaccttgaga tgtgcatgac tgggtctggac 240
aag 243

<210> 678

<211> 243

<212> DNA

<213> Zea mays

<223> unsure at all n locations
 <400> 678

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ggtgaccttg tcaagagggg cctccggtgc tttngcccct cagagttttc cgttgccgtg   60
accatcttcg gcgggcggtg ccatgccggg acatggggaa aggcacttgg tgcagaggtc  120
tatgactgca acaacatggt ggagcaggag ctgcctggag gcgggctcct cgtgtaccag  180
agcttctgtg ctgctgaaga cgctgttgct acctcgccca aatctgtttt ccactgcttt  240
gac                                                                    243

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<210> 679
 <211> 251
 <212> DNA
 <213> Zea mays

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<400>        679
ggggtttcac acatagcttc gtcgatttga atttgatgta ctaatggagt ctaaggggtg   60
caaaaagtct agcagtagtc gttctatgat gtatgaagct ccccttggtt acagcattga  120
ggacgttcga cctgccggag ggtgaagaag ttccagtctg ctgcttactc caactgcgcg   180
aagaagccat cctgatatcc cttttggctt cctcattcta gtagtttagg atttcttttc  240
tgacactttg a                                                                    251

```

<210> 680
 <211> 268
 <212> DNA
 <213> Zea mays

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<400>        680
cacaattcca aggatcctag agcttgtctga agagctgtct atgcctcttg ctgctgtgaa   60
gtactcccgc gggacgttca tctttcctgg cgcacagcca gccccccacc ggagcttctc  120
cgaggaagtt gctgtactta accgatactt tgggggcctg aagtctggtg gcaatgctta  180
tgtgattgga gatgcagcaa gaccaggaca gaagtggcac atctactacg ccactgagta  240
cccagagcaa ccaatgttca accttgag                                                                    268

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<210> 681
 <211> 249
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 681

gctgatggga acacagcatg tgccaaggaa atgacaaagc tctctggcat ctctgaaatc 60

atccccgaga tggagatctg cgattttgac tttgaaccct gtggctactc catgaatgcg 120

atccatggct ctgcattctc cacaatccat gtgacgcccg aggacggttt cagcnatgcc 180

agttatgagg ttatgggctt ggatgccact gctctgtctt atgggtgacct tgtcaagagg 240

gtccttcgg 249

<210> 682

<211> 241

<212> DNA

<213> Zea mays

<400> 682

gccacttgct gctgtgaagt actcccgtag gacgttcac tttcctggtag cacagccagc 60

ccccacagg agcttctctg aggaagttgc tgcacttaac cgctactttg gcggcctgaa 120

atctgggtggt aatgcttatg tgattggaga tccagcaaga cctggacaga agtggcacgt 180

cttctacgcc actgagtacc cagagcaacc aatgggtaac cttgagatgt gcatgactgg 240

t 241

<210> 683

<211> 268

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 683

gtctttttca agactaatgc tgatgggaac acaacatgtg ccaaggaaat gacaaagctc 60

tctggcatct ctgaaataca tccccgagat ggagatctgc gatcttgact tcgaaccctg 120

tggctactcc atgaatgcga tccatggctc tgcattctcc acaatccatg tgacgcccga 180

ggacggtttc agctacgcca gttacgaggt tatgggctnt anttgccatg ctctgtctta 240

tggtgacctt gtcaagaggt cctccggt 268

<210> 684

<211> 264
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 684

tgttttccac tgctttgacg gcgagaacgt ggagagtgtc cctcctccta tgaagaagga 60
 ctacaaacta gctaattcttc tctgctgnnn ggaggaagcg gatgccatgg aggagaaggc 120
 gggagtgtct gatgagtaag acgggcttct ggtgtcgatt tgcttctgag ttgtttatct 180
 tatatcgctg cnatttcgtg gttgtcgttt ggttatctgt gaagcagcca agccaggcta 240
 ttgttatgaa aattgtcgtc tgta 264

<210> 685
 <211> 268
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 685

agcaagacct gggacagaag tggcacnntc ttctacgcca ctgagtaccc agagcaacca 60
 atggttaacc ttgagatgtg catgactggt ctggacaaga agaaagcttg tgtctttttc 120
 aagactaatg ctgatgggaa cacaacatgt gccaaaggant ganaancctc tctggcatct 180
 ctgaaatcat ccccgagatg gagatctgag attttgactt cgaaccctgt ggctactcca 240
 tgaatgcgat ccatggctct gcattctc 268

<210> 686
 <211> 332
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 686

ttttccctgc tttgacggcg agcaacgtgg anagtgtctc ncctcctatg aagaangnct 60
 acanactggc taatcttcta tncnnggacg nnganncgga tgcccatggn aggagaaggc 120
 gggagtgtct gatgagtaan acgggcttct ggggtcgatt tgcttctgag ttgtttatct 180
 tatatcgctg caatttcgtg gttgtcgttt ngttattctg tgaagcagcc aagccaagct 240
 attgttatga nntttgtcgt ctgtaagcat gtgacttccg ccgttgccac atgctggatc 300

agtctgaata gtaagtingca gctctagtgg nc

332

<210> 687

<211> 237

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 687

gaagcggatg ccatggngga gaaggcggga gtgcttgatg agtaagacgg gcttctgggg 60

tcgatttgct tctgagttgt ntatattata tcgtcgcaat ttcgtggttg tcgtttggtt 120

attctgtgaa gcagccaagc caggctattg ttatgaaaat ttgtcgtctg taagcatgtg 180

aacttccgat gttgccacat gctggatcag tctgaataag taagtatgca gctctag 237

<210> 688

<211> 286

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 688

cagcattgtg ttctgattca cctgnctcca atggctgttg ctttctgctg ctgatgcttc 60

cccggctctca gctatcgggt ttgagggtta tgagaagcgc cttgagatca cattctctga 120

ggcacctgtc tttgtggacc ctcatggcgt ggtttgcgtg ccctctccag ggcccagatt 180

gactctgttc tggatcttgc acggtgcaca atgtgtccga gctctccaac aaggatttcg 240

actcatagtc ctctctgagt caagcttggt tatctatctc tgaaga 286

<210> 689

<211> 300

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 689

gncgtgcnan ctcggaatc aggggtttca cacatagctt cgtcgatttg aatttnatgt 60

actaatggag tctaagggtg gcaaaaagtc tagcagtagt cgttctatga tgtatgangc 120

tccccttggc tacagnttg aggacgttcg acctgccgga cggatgaagaa gttccagtct 180

gctgcttact ccaagtgcgc gangaagcca tcctgatatc cttttggctt ccctcattct 240
 agtagtttan gatttcnttt ctgacacttt gatntgacc antctctnct gggcttgntg 300

<210> 690
 <211> 278
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 690

gtgattggag gccgccaaag tagcggntaa gtgcagcaac ttcctnagag aagctcctgt 60
 ggggggctgg ctgtgcacca ggaaagatga acgtcccang ggagtacttc acagcagcna 120
 gtggcataga cagctcttca gcaagctcaa ggattcttgg aatggtgagc aggacttggt 180
 agtgccacag gtcttgatga caatcttcag aggatagatn aacaagcttg actcatagag 240
 gacatatgat ccgaaatcct tgtggagagc tcgacaca 278

<210> 691
 <211> 525
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 691

gnnaantgtt ttgtaanggg ggggnnaang nnaagctttt accggtccgg aattcccggg 60
 tcgaccacag cgtccgcaaa gaattccctc ccctagccgc cgccgccgcc gctcgtctcc 120
 ctgagaggtg ccgggaccga ggaactggcc gagtactagg tagagaatcg gtttttcttg 180
 tctcagcccg gggctctgctg cgtctgggtg tggtgaaggg gagaaattcg tgagatctgt 240
 tccggatcag gcgtgcgagc tcgggaatca ggggtttcac acatagcttc gtcgatttga 300
 atttgatgta ctaatggagt ctaagggtgg caaaaagtct agcagtagtc gttctatgat 360
 gtatgaagct ccccttggtc acagcattga ggacgttcga cctgccggag gcgtgaagaa 420
 gttccagtct gctgcttact ccaactgcgc gaagaacat cctgatatcc cttttggctt 480
 nctcattcta gtagtttaag gattcttttn tgacactttg aattt 525

<210> 692
 <211> 242
 <212> DNA

<213> Zea mays
 <400> 692

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gcatgactgg tctggacaag aagaaagctt gtgtcttttt caagactaat gctgatggga 60
acacaacatg tgccaaggaa atgacaaagc tctctggcat ctctgaaatc atccccgaga 120
tggagatctg cgattttgac ttcgaacctt gtggctactc catgaatgcg atccatggct 180
ctgcattttc aaaatccatg tgacgcccga ggacggtttc agctacgcca gttacgaggt 240
ta 242

```

<210> 693
 <211> 238
 <212> DNA
 <213> Zea mays

<400> 693

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caaatcttat tcataaacia aatgggttca cagatatctt tccatacgta catgctcatt 60
gtggtagacg cagctgacca cctagagctg catacttact tattcagact gatccagcat 120
gtggcaacgt cggaagtcca catgcttaca gacgacaaat tttcataaca atagcttggc 180
ttggctgctt cacagaataa ccaaacgaca accacgaaat tgcgacgata taaaataa 238

```

<210> 694
 <211> 263
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 694

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cttganatgn gcatgactgg tctggacnag nagaangctt gtgtcttttt caagantaat 180
gctgatgggn acacnacatg tgccaaggga atgacnaagc tcnctggcat ctcnгааagc 240
ntnccccnga tggannntgc gnt 263

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<210> 695
 <211> 245
 <212> DNA
 <213> Zea mays

<400> 695

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aggcacttgg tgcagaggtc tatgactgca acaacatggt ggagcaggag ctgcctggag 180
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atctg 245

<210> 696

<211> 229

<212> DNA

<213> Zea mays

<400> 696

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tccagggccc agattgactc tgttctggat cttgcacggt gcacaattgt gtctgagctc 180
tccaacaagg atttcgactc atatgtcctt tctgagtaa gcttgttta 229

<210> 697

<211> 228

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 697

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tctgtgctgc tgaagacgct gttgctacct cgcccaaadc tgctttgacg 180
gcgagaacgt ggagagtgc ctcctccta tgaagaagga ctacangc 228

<210> 698

<211> 227

<212> DNA

<213> Zea mays

<400> 698

caacatggtg gagcaggagc tgcctggagg cgggctcctc gtgtaccaga gcttctgtgc 60
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cgtggagagt gctcctcctc ctatgaagaa ggactacaag ctggctaate ttctctgctg 180
ggaggaggaa gcggatgcca tggaggagaa ggcgggagtg cttgatg 227

<210> 699

<211> 275

<212> DNA

<213> Zea mays

<400> 699

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tggatgccac tgccctgtct tacggtgacc ttgtcaagag ggtccttggg tgcttcggcc 180
cctcggaatt ttctgtcgcc gtgaccatct tcggcgggcg gggccaagct gggacatggg 240
gaaaggaatt ggtgcggagg cttatgactg caaca 275

<210> 700

<211> 497

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 700

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gggtcgaccc acgcgtccgc caaagaattc cctcccctac cgccgtcgcc gctcgtctcc 120
ctgagaggtg ccgggaccga ggaactggcc gagttctagg tagagaatcg gttttgcttg 180
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gtatgaagct ccccttggt acagcattga ggacgttcga cctgccggag gcgtgaagaa 420
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tcctcattct agtagtt 497

<210> 701
 <211> 244
 <212> DNA
 <213> Zea mays

 <400> 701

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 tacagcattg aggacgttcg acctgccgga ggggtgaagaa gttccagtct gctgcttact 180
 ccaactgcgc gaagaagcca tcctgatata ccttttggct tcctcattct agtagtttag 240
 gatt 244

<210> 702
 <211> 292
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 702

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 tccccttggc tacagcattg aggacgttcg acctgccgga gggtgaaaga anttccagtc 180
 tgctgcttac tccaactgcg cgaagaagcc atcctgatan ccctttinggc ttctcatttn 240
 cnagtagttn aggttccttt tctgacattt gattctgacc aatctcgng gg 292

<210> 703
 <211> 225
 <212> DNA
 <213> Zea mays

 <400> 703

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 ttctggatct tgcacggtgc acaattgtgt ccgagctctc caacaaggat ttcgactcat 180
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<210> 704

<211> 289
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 704

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 gtttgagggc tatgagaagc gccttgagat cacattctct ganncacctg tctttgtgga 180
 ccccatggc agcggtttgc gtgccctctc cagggtcccag attgactctg ttctggatct 240
 tgcacggtgc acgatcgtgt ccgagctctc caacaaggat ttgactcct 289

<210> 705
 <211> 257
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 705

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 ggacgttcat ctttcctggc gcacagccag cccccacag gagcttctct gaggaagtgc 120
 tgcacttaac cgctactttg gcgggctgaa atctggtggt aatgcttatg tgattggaga 180
 tccagcaaga acctggacag aagtggnacg tcttctaacg caactgagta ccnagagcaa 240
 ccaatggtta ccttgag 257

<210> 706
 <211> 221
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 706

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 tccagtctgc tgcttactcc aactgcgcga agaagccatc ctgatatccc ttttggttc 120
 ctcatctag tagtttagga tttcttttct gacactttga ttctgaccaa tctctctggc 180
 ctgctgcttc ctgataatcg accagttccc cagtcttgct c 221

<210> 707
 <211> 534
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 707

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 gggtcgaccc acgcgtccgg ttgccaaaga attccctccc ctageccgnc gccgccgctc 120
 gtctccctga gaggtgccgg gancgaggaa ctggccgagt tctaggtaga gaatcggttt 180
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 atttgaattt gatgtactaa tggagtctaa ggggtggcaa aagtctagca gtagtcgttc 360
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 gaagaagttc cagtcttgct tgcttactcc aactgcgcga agaagccatc ctgatatccc 480
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<210> 708
 <211> 253
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 708

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 attcacctgc tccaatggct gttctttctg ctgctgatgc ttccccggtc tcagctatcg 180
 ggnttgaggg ctatgagaag cgcctgagat cacattctct gaggnactgt cttingtggan 240
 cncanggcgg ggg 253

<210> 709
 <211> 301
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 709

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ctgcgcaaag aagccatcct gatatccctt ttggctttct cgttctagta gtttaggatt 120
tcttttctga cacttcgatt cttaccaatc cccctggcct gctgctttcc tgacaatcga 180
ccagttcccc agtcttgctc cctgcagtc tccctcctcc atctccagcg ttgtgttctg 240
actcacctgc accaatggct gttctttctg ctgctgggtgc tcccccggcc tcagctatcg 300
g 301

<210> 710
<211> 261
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<400> 710

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tggcgcacan ccagcccccc accgganctt ctccgaggaa gttgctgtac ttaancgata 120
ctttgggggc ctgaagtctg gtggcaatgc ttatgtgatt gnagatgcag caagaccagg 180
acagaantng cacatctact acgccactga gtaccagag caancaatgg tcaaccttga 240
gatgtaaana nnggnttttn c 261

<210> 711
<211> 252
<212> DNA
<213> Zea mays
<400> 711

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ccacgatcca tgtgacgcct gaggatgggt tcagctacgc cagttatgag gttatgggct 120
tggatgccac tgccctgtct tacggtgacc ttgtcaagag ggtccttggg tgcttcggcc 180
cctcggaatt ttctgtcgcc gtgaccatct tcggcgggcg gggccaagct gggacatggg 240
gaaaggaatt gg 252

<210> 712
<211> 263
<212> DNA
<213> Zea mays

<400> 712

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cacctgcacc aatggctggt ctttctgctg ctggtgctcc cccggcctca gctatcgggt 120
ttgagggcta tgagaagcgc cttgagatca cattctctga ggcacctgtc tttgtggacc 180
cccatggcag cggtttgctg gccctctcca ggtcccagat tgactctggt ctggatcttg 240
cacggtgcac gatcgtgtcc gag 263

<210> 713

<211> 266

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 713

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caggctattg ttatgaaaat tgtcgtctgt aagcatgtga acttccgatg ttgccacatg 180
ctggancatc tgaataagta agtangnngc tctaggtagt cagctgcgtc tncccaaat 240
gagcatgaag tatggagaaa tatctg 266

<210> 714

<211> 242

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 714

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ctccacaatc catgtgacgc ccgaggacgg ttccagctat gccagttatg aggttatggg 120
cttggatgcc actgctctgt cttatggtga cttgtcaag agggtcctcg gtgctttggc 180
ccctcggagt ttccgttgc cgtgaccatc ttcggcgggc gtggccagcc gggaacatgg 240
ga 242

<210> 715

<211> 257

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 715

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 tactttgtgg acccccatgg cagcggtttg cgtgccctct ccagggtcca gattgactct 120
 gttctggatc ttgcacggtg cacgatcgtg tccgagctct ccaacaagga ttttgantcc 180
 tatgttctct ccgagtcaag cttgttcacg tatcctctga agattgtcat caagacctgt 240
 ggcataccaa gctcctg 257

<210> 716
 <211> 326
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 716

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 tggtcnggat cttgcanggt gnacaattgn gnccgagctc tccaacaagg atttcgactc 180
 natgtcctct ctgagtcaan ttgnttatct atcctctgaa gattgtcatc aagacctgtg 240
 gcatancaag ctctgtcan catcnaagaa tcctgagctg ctgaagagct gtctagccat 300
 tgctnctgtg antatccgtg ggagtc 326

<210> 717
 <211> 496
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 717

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 cccacgcgtc cggttgccaa agaattccct cccctagccg ccgccgccgc tcgtctccct 120
 gagagggtgcc gggaccgagg atttggccga gttctaggta gagaatcggg tttacttgtc 180
 tcagcccggg gtctgctgcg tctgggtgtg gtgaagggga gaaattcgtg agatctgttc 240

cggatcaggc gtgcgagctc gggaatcagg ggtttcacac atagcttcgt cgatttgaat 300
 ttgatgtact aatggagtct aaggggtggca aaaagtctag cagtagtcgt tctatgatgt 360
 atgaagctcc ccttggctac agcattgagg acgttcgacc tgccggaggc gtgaagaagt 420
 tccagtctgc tgcttactcc aactgcgcga agaaccatcc tgatatccct tttggcttct 480
 cattctaagt anttta 496

<210> 718
 <211> 237
 <212> DNA
 <213> Zea mays

<400> 718

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 tgaataagta agtatgcagc tctaggtggt cagctgcgtc taccacaatg agcatgtacg 180
 tatggagaaa tatctgtgaa cccattttgt ttatgaataa gatttggttt ttcgagt 237

<210> 719
 <211> 493
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 719

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 ngaaggggag aaattcgtga gatctgttcc ggatcaggcg tncgagctcg ggaatcaggg 180
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 cgttcgacct gccggaggcg tgaagaantt ccagtctgct gcttactcca actgcgcgaa 360
 aaaaccatcc tgatatccct tttggctttc ctcaatctaa tantttaagg atttcttttt 420
 ttgacacttt taattcttac caaatntttt ttggcctggn tgctttcctg anaaatngac 480
 canttcccca nnt 493

<210> 720
 <211> 264
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 720

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 gctaattctt tctgctggga ggaggaagcg gatgccatgg aggagaaggc gggagtgttt 120
 gatgagtaag acgggcttct ggtgtcgatt tgcttctgag ttgtttatatt tatatcgctg 180
 caatttcgtg gttgtcgttt ggttatccgt gaagcaccca gccagcnaat gttagnaaat 240
 ttgccgccgt aaccagggaa cttc 264

<210> 721
 <211> 272
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 721

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 gtactaatgg agtctaaggg tggcaaaaag tctagcagta gtcgnntcca tgatgtatga 120
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 gtengcngct tactccaaact gcgnnaagaa gccatttcct gatatccctt tnggcttcn 240
 cattctagta ggtaggatt ncttttctna ca 272

<210> 722
 <211> 487
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 722

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 nnnnnnnnnn nnncaaagaa ttccctcccc tagccgccgc cgccgctcgt ctccctgaga 120
 ggtgccggga ccgaggaact ggccgagttc taggtagaga atcggttttg cttgtctcag 180
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 agctccccctt ggctacagca ttgaggacgt tcgacctgcc gggaggcgtg aagaagttcc 420
 agtctgctgc ttactccaac tgcgcgaaag aagccatcct gatatccctt ttggcttcct 480
 caatcta 487

<210> 723
 <211> 271
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 723

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 gacgggcttc tgggtgtcgat ttgcttctga gttgtttatt ttatatcgtc gcaatttcgt 180
 gggtgtcggt tgggtattct gtgaagcagc caagccaggc tattgttatg aaaatttgtc 240
 gtctgtaagc atgtgaactt ccgatgttgc c 271

<210> 724
 <211> 214
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 724

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 tgtggctact ccatgaatgc gatccatggc tctgcattct ccacaatcca tgtgacgccc 120
 gaggacgggt tcagctatgc cagttatgag gttatgggct tggatgccac tgctctgtct 180
 tatggtgacc ttgtcaagag ggtcntcggt gttg 214

<210> 725
 <211> 260
 <212> DNA
 <213> Zea mays

<400> 725

caatcgacca gttccccagt cttgctccct gcagtcctcc ctctccatc tccagcgttg 60
 tgttctgact cacctgcacc aatggctggt ctttctgctg ctgggtgctcc cccggcctca 120
 gctatcgggt ttgagggtta tgagaagcgc cttgagatca cattctctga ggcacctgtc 180
 tttgtggacc cccatggcag cggtttgctg gccctctcca ggtcccagat tgactctggt 240
 ctggatcttg cacggtgcac 260

<210> 726

<211> 536

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 726

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 cgnatgngac cgacgcgtcc gcaangaatt ccctccccta gccgcgcgt cgtcgctcg 120
 tctccctgag aggtgccggg ncnggggaac tggccgagta ctaggtagag aatcggtttt 180
 tcttgtctca gcccggggtc tgctgctct ggtggtggtg aaggggagaa attcgtgaga 240
 tctgttccgg atcaggcgtg cgagctcggg aatcanggggt ttcacacata gcttcgtcga 300
 tttgaatttg atgtactaat ggagtctaag ggtggcaaaa agtctagcag tagtcgttct 360
 atgatgtatg aagctnccct tggctacagc attgaggacc gttcgacctg ccggangcgt 420
 gaagaagttc cagtctnctg cttacttcaa ctgccnaag aagccatcct natanncctt 480
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<210> 727

<211> 456

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 727

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 gcgtctggtg gtggtgaagg ggagaaattc gtgagatctg ttccggatca ggcgtgcgag 180
 ctcgggaatc aggggtttca cacatagctt cgtcgatttg aatttgatgt actaatggag 240

tctaagggtg gcaaaaagtc tagcagtagt cgttctatga tgtatgaagc tccccttggc 300
 tacagcattg angacgttcg acctgccnga ngcgtgaaga aattncaagt ctgctgctta 360
 ctccaactgc gccaaaaaac catnctgata ttccttttgg ctttcctaata ctagtaagtt 420
 aaggatttct tttctgacac ttttgaatct gancca 456

<210> 728
 <211> 196
 <212> DNA
 <213> Zea mays

<400> 728

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 ggttattctg tgaagcagcc aagccaggct attgttatga aaatttctg tctgtaagca 120
 tgtgaacttc cgatgttgcc acatgctgga tcagtctgaa taagtaagta tgcagctcta 180
 ggtggtcagc tgcgtc 196

<210> 729
 <211> 218
 <212> DNA
 <213> Zea mays

<400> 729

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 ttttgactcc tatgttctct ccgagtcaag cttgttcac taccctctga agattgtcat 120
 caagacctgt ggcaactacca agctcctgct cacaattcca aggatcctag agcttgctga 180
 agagctgtct atgcctcttg ctgctgtgaa gtactccc 218

<210> 730
 <211> 261
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 730

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 naccgnctct gtcttatggt gaccttgcga agaggggtcct ccggtgcttt ggcccctcga 120
 gttttccgtt gccgtgacca tcttcggcgg gcgtggccat gccgggacat ggggaaagca 180

cttgggtgcag aggtctatga ctgcaacaac atggtggagc aggagctgcc tggagggggc 240
 tcctcgtgta ccagagctna c 261

<210> 731
 <211> 306
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 731

atcagggggtt tcacacatag cttcgtcgat ttgaatttga tgtactaatg gagtctaagg 60
 gtggcaaaaa gtctagcagt agtcgtctat gatgtatgaa gctcccccttg gctacagcat 120
 tgaggacggtt cgacctgccg gagngtgaag aagttccagt ctgctgctta ctccaactgc 180
 gcgaagaagc catcctgata tcctttggct tcctcatcta gtagtttagg attctttctg 240
 acatttgatt ctgacaatct cctggctgtg ttctgataac gacaatcnca tctgtcttga 300
 tctcct 306

<210> 732
 <211> 295
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 732

ggacgttcga cctgccggan ggcgaagaag ttccagtctg ctgcttactc caactgcgca 60
 aagaagccat cctgatatcc cttttggctt cctcgttcta gtagtttagg atttcttttc 120
 tgacacttcg attcttacca atccccctgg cctgcngctt tcctgataat cgaccagttc 180
 ccagtccttg ctccctgcag tcctccctcc tccatctcca gcgttggtgtt ctgactcacc 240
 tgcaccaatg gctgttcttt ctgctgctgg tgctccccgg gctnaagtat ngggt 295

<210> 733
 <211> 532
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 733

ggnnnnnnna actgtctatt cngcccgggc cgggtccaca aattnacggg gtcnacgcag 60
 cgtccgcnc a cgnogtccgc ccacgccgtc cgcccacgcg tccggggcaa atgcttatgt 120
 gattggagat gcagcaagaa ccagggacag aagtggcaca tctactacgc cactgagacc 180
 cagagcaacc aatgggtcaac cttgagatgt gcatgactgg tctggacacg aagaaacttc 240
 agtcttcttc aagactaatg ctgatggcaa cacaacatgt gccaaaggaaa tgacgagctc 300
 tctggtaanc tctgaaatta tccctgagat ggagatctgt gatcttgact tcgaacctg 360
 cggctactcc catgaatgca atccatgggc tctgcgttct ccacgattca tgtgacgcct 420
 gaggatgggt tcaagctacg ccaagttatg aagttatggg gcntggatgc catggncctg 480
 ttctaaaggn gaaccttttc aaaaaggggc ccttnggggg cttccgcccc cc 532

<210> 734
 <211> 269
 <212> DNA
 <213> Zea mays

<400> 734

atccccctgg cctgctgctt tcttgacaat cgaccagttc cccagtcttg ctccctgcag 60
 tctccctcc tccatctcca gcgttgtgtt ctgactcacc tgcaccaatg gctgttcttt 120
 ctgctgctgg tgctcccccg gcctcagcta tcggggttga gggctatgag aagcgccttg 180
 agatcacatt ctctgaggca cctgtctttg tggacccccca tggcagcggg ttgcgtgccc 240
 tctccaggtc ccagattgac tctgttctg 269

<210> 735
 <211> 231
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 735

gcttcgtcga tttgaatttg atgtactaat ggagtctaag ggtggcaaaa agtctagcag 60
 tagtcgttcc atgatgtatg aagctccccct tggctacagc attgaggacg ttcgacctgc 120
 cggaggggtga agaagttcca gtctgctgct tactccaact gcgcgaagaa gccatcctga 180
 tatccctttt ggcttccgca tnnaggagtt agggtttcta cccnnccngn g 231

<210> 736
 <211> 220
 <212> DNA
 <213> Zea mays

<400> 736

cgtttggtta ttctgtgaag cagccaagcc aggctattgt tatgaaaatt tgtcgtctgt 60
 aagcatgtga acttccgatg ttgccacatg ctggatcagt ctgaataagt aagtatgcag 120
 ctctaggtgg tcagctgcgt ctaccacaat gagcatgaac gtatggagaa atatctgtga 180
 acccattttg tttatgaata agatttgttt ttttcgagtt 220

<210> 737
 <211> 442
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 737

caaagaattc cctcccctag ccgccgncgc cgccgctcgt ctccctgaga ggtgccggga 60
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 gctgcgtctg gtggtggtga aggggagaaa ttcgtgagat ctgttccgga tcaggcgtgc 180
 gagctcggga atcagggggtt tcacacatag cttcgtcgat ttgaatttga tgtactaatg 240
 gagtctaagg gtggcaaaaa gtctagcagt agtcgttcta tgatgtatga agctcccttg 300
 gctacagcat tgaggacgtt cgacctgccg gaggcntnaa gaagttccag tctgctgctt 360
 actncaactg cgcgaaaaan ccctcctgat atcctttggc tttcctcatc taatagttta 420
 ngattctttt ctgacctttg at 442

<210> 738
 <211> 527
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 738

gnggnnggtg gtnanngnnn tcnannaana atctnctacc ggccccggaat tccccgggtcg 60
 acccacgcgt ccgaaagaat tccctcccct agccgccgcc gccgctcgtc tccctgagag 120
 gtgccgggac cgaggatttg gncgagttct aggtagagaa tcggttttac ttgtctcagc 180

ccgggggtctg ctgcgtctgg tgggtggtgaa ggggagaaat tcgtgagatc tgttccggat 240
caggcgtgcg agctcgggaa tcaggggttt cacacatagc ttcgtcgatt tgaatttgat 300
gtactaatgg agtctaaggg tggcaaaaag tctagcagta gtcgttctat gatgtatgaa 360
gctncccttg gctacagcat tgaagacgtt cgacctgccn gaagcctgaa aaagttcaat 420
ctgntgctta ctccaactgc gccaaagaaa ccattctgat atcccttttg gcttctcat 480
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<210> 739

<211> 249

<212> DNA

<213> Zea mays

<400> 739

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ccaagctggg acatggggaa aggaacttgg tgcgagggt tatgactgca acaacatggt 120
cgagcaggag ctgcctggag gtgggatcct catctaccag agcttctgtg ctgctgaaga 180
cgccgttgct agctcgccca aatccgttct tcgctgcttt gatggcgaga atgcagcact 240
tttgcaag 249

<210> 740

<211> 514

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 740

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accacgcgt ccggttgcca aagaattccc tcccctagcc gccgccgccg ctgctctccc 120
tgagaggtgc cgggaccgag gatttgccg agttctaggt agagaatcgg ttttacttgt 180
ctcagcccgg ggtctgctgc gtctggtggt ggtgaagggg agaaattcgt gagatctgtt 240
ccgatcagg cgtgcgagct cgggaatcag gggtttcaca catagcttcg tcgatttgaa 300
tttgatgtac taatggagtc taaggggtggc aaaaagtcta gcagtagtcg ttctatgatg 360
tatgaagctc cccttggtc cagcattgag gacgttcgac ctgccggagg cgtgaagaag 420

ttccagtctg ctgcttactc caactgcgcg aagaaccatc ctgatatccc ttttggcttn 480
ctcattctag taanttaaga attcntttnt tgac 514

<210> 741
<211> 298
<212> DNA
<213> Zea mays

<400> 741

gtagtttagg atttcttttc tgacacttcg attcttacca atccccctgg cctgctgctt 60
tcctgacaat cgaccagttc ccaggtcttg ctccctgcag tcctccctcc tccatctcca 120
gcgttggtgtt ctgactcacc tgcaccaatg gctgttcttt ctgctgctgg tgctcccccg 180
gcctcagcta tcggggttga gggctatgag aagcgccttg agatcacatt ctctgaggca 240
cctgtctttg tggaccccat ggcagcgggtt tgcgtgccct ctccaggtcc cagattga 298

<210> 742
<211> 217
<212> DNA
<213> Zea mays

<400> 742

ttttttttta actcgaaaaa aacaaatctt attcataaac aaaatgggtt cacagatatt 60
tctccatacg ttcattgtca ttgtggtaga cgcagctgac cacctagagc tgcatactta 120
cttattcaga ctgatccagc atgtggcaac atcggaagtt cacatgctta cagacgacaa 180
attttcataa caatagcctg gcttggctgc ttcacag 217

<210> 743
<211> 181
<212> DNA
<213> Zea mays

<400> 743

tgcgattttg acttcgaacc ctgtggctac tccatgaatg cgatccatgg ctctgcattc 60
tccacaatcc atgtgacgcc cgaggacggg ttcagctacg ccagttacga gggttatgggc 120
ttggatgcca ctgctctgtc ttatgggtgac cttgtcaaga gggtcctccg gtgctttggc 180
c 181

<210> 744
 <211> 373
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 744

gccaaagaat tccctcccct agccgccggn nccgctcgtc tccctgagag gtgccgggac 60
 cgaggatttg gccgagttct aggtagagaa tcggttttac ttgtctcagc ccgggggtctg 120
 ctgctgtctgg tgggtggtgaa ggggagaaat tcgtgagatc tgttccggat caggcgtgcg 180
 agctcgggaa tcagggggttt cacacatagc ttcgtcgatt tgaatttgat gtactaatgg 240
 agtctaaggg tggcaaaaag tctagcagta gtcgttctat gatgtatgaa gctccccttg 300
 gctacagcat tgaggacgtt cgacctgccg gaggcgtgaa gaagttccag tctgctgctt 360
 actccaactg cgc 373

<210> 745
 <211> 281
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 745

gtctcagccc ggggtctgct gcgtctggtg gtggtgaagg ggagaaattc gtnaganctg 60
 ttccggatca ggcgtgagag gctcnggaat tcaggggttt cacacatagc ttcgtcgatn 120
 tgaatttnat gtactaatgg agtctaaggg tngcaaaaag tctagcagta gtcgttctat 180
 gatgtatgaa gctccccttg gctacagcat tgaggacgtt cgacctgccg gagngtgaa 240
 gaagttccag tctgctgctt actccaactg cgcgaagang c 281

<210> 746
 <211> 184
 <212> DNA
 <213> Zea mays

<400> 746

gtggcaaaaa gtctagcagt agtcgttcta tgatgtatga agtcccctt ggctacagca 60
 ttgaggacgt tcgacctgcc ggagggtgaa gaagttccag tctgctgctt actccaactg 120

cgcgagaag ccacctgat atcccttttg gcttcctcat tctagtagtt taggatttct 180
tttc 184

<210> 747
<211> 170
<212> DNA
<213> Zea mays

<400> 747

cagcaagacc tggacagaag tggcacgtct tctacgccac tgagtacca gagcaaccaa 60
tggttaacct tgagatgtgc atgactgggc tggacaagaa gaaagcttgt gtctttttca 120
agactaatgc tgatgggaac acaacatgtg ccaaggaaat gacaaagctc 170

<210> 748
<211> 441
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 748

attacntncc ctagccggcg tcgccgctcg tnttcctgag aggtgccggg accganggnn 60
tggncgantt ctangtagag aatcggtttt actngtctca acccgngtc tgctgcgtct 120
ggtggtggtg aangggagaa attcntgaga tctgtncgg atcaggcgng cgagctcggg 180
aatcaggggt ttcacacata gcttcgtccg atttgaattt gatgtactan atggantcta 240
anggtggcaa aaagtctanc attagtcgct ctatgatgta tgaanctccc ctnggctaca 300
gcattgagga cgttcgacct gccggaggcg tgnanangtt ccagtctgat gcttactnca 360
actgcgcgan ganccatcct gatatccctt ttggnncct cattctagna cgtaggant 420
tnttggtgac acttngattc t 441

<210> 749
<211> 195
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 749

agcaagacct ggacagaagt ggcacgtctt ctacgccact gagtaccag agcaaccaat 60

ggttaacctt gagatgtgca tgactggctt ggacaagaag aaagcttctg tctttttcaa 120
gactaangct gatgggnaca cagcatgtgc naaggaatga caaagctctc tggcatctct 180
gagtcattccc cgagt 195

<210> 750
<211> 463
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 750

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gccgccgccg ctcgtctccc tgagaggtgc cgggaccgag gatttggccg agttctaggt 120
agagaatcgg ttttacttgt ctcagcccgg ggtctgctgc gtctgggtggg ggtgaagggg 180
agaaattcgt gagatctgtt ccggatcagg cgtgcgagct cgggaatcag gggtttcaca 240
catagcttcg tcgatttgaa tttgatgtac taatggagtc taagggtggc aaaaagtcta 300
gcagtagtcg ttctatgatg tatgaagctc cccttggcta cagcattgag gacgttcgac 360
ctgccggagg cgtgaagaaa ttccagtctg ctgcttactc nactgngcga agaaccatnc 420
tgatatcctt ttnggtttct taatctaaga nnttangatt ctt 463

<210> 751
<211> 292
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 751

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agctatcggg tttgagggct atgagaagcg ctttgagatc acattctctg aggcacctgt 120
cttgtggacc tcatgggcgt ggtttgctg nccctctncn agggcccaga ttgaactctg 180
tacnggatct tggcaggnng caaaattgtg tctggagctc tccaacaagg atttcgactc 240
atatgtcctn tctgaagtna agcttgnta tcnnnnccag gaagatngac ca 292

<210> 752
<211> 291
<212> DNA

<213> Zea mays
 <223> unsure at all n locations
 <400> 752

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 cacataatnt nactanttga atttgatgta ctaatggant ctaanggtgg caagaagtnc 120
 agcagtagtc gntccatgat gtatgaagct ccccttggtc acagcatnng aanncgttcg 180
 acctgccgga gnnccaagaa gttccagtct gctgcttact ccaactgcgc aaagaagcca 240
 tcctgatatc ccttttggtc tcctcgttct agtagtttag gatttctttt c 291

<210> 753
 <211> 506
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 753

gtggggnnngn aatgttcgtt gccgtgccgg tccgaaaatc acgggtcgac ccacgcgtcc 60
 gaagaattcc ctcatagccg ccgccgccgc cgccgccgcc gctcatctcg ccgagagggtg 120
 acgggaccga ggaactcgcc gagttctaag atagagaatc gcttttcaca gcctgggggtc 180
 tgctgcgtag ggtggtgttg aaggggagaa gtttaagatc tgttccacag atcacgcgtg 240
 cgcgctcgcg aatcgggggt tccacacata gcttcgtcgt tttgaatttg atgtactaat 300
 ggagtctaag ggtggcaaga agtctagcag tagtcgttcc atgatgtatg aagctcccct 360
 tggctacagc attgaggacg ttcgacctgc cggaggcgcc aagaagttcc aatctgctgc 420
 ttactccaac tggcgcaaag aaancatcct gaaaaccctt ttgnntcct ccttccaata 480
 atttaaggat tcctttccna aaacnt 506

<210> 754
 <211> 275
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 754

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 tgaagaagtt ccagtctggc tgnntacgnc caactgcgcc naagangcca tcctggatat 120

cccttttggc ttcttcattc tagnagttta ggattttcttt tctgacactt tgatgctgac 180
 naatctctct ggcttgggtgc ttcttgataa tggaccagtt cccagtcttg ctctttgcat 240
 cctcgctcct ccattctncag cattgtgtcc gattc 275

<210> 755
 <211> 158
 <212> DNA
 <213> Zea mays

<400> 755
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 taagcatgtg aacttccgat gttgccacat gctggatcag tctgaataag taagtatgca 120
 gctctaggtg gtcagctgcg tctaccacaa tgagcatg 158

<210> 756
 <211> 165
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 756
 cctccctcca tctccagcat tgtgttctga ttcacctgct ccaatggctg ttctttctgc 60
 tgctgatgtc tccccggtct cagctatcgg gtttgagggc tatgagaagc gccttgagat 120
 cacattctct gaggcacctg tctttgtnga ccctcattcn cntng 165

<210> 757
 <211> 157
 <212> DNA
 <213> Zea mays

<400> 757
 agcgccttga gatcacattc tctgaggcac ctgtctttgt ggaccctcat gggcgtggtt 60
 tgcgtgccct ctccagggcc cagattgact ctgttctgga tcttgcacgg tgcacaattg 120
 tgtccgagct ctccaacaag gatttcgact catatgt 157

<210> 758
 <211> 221
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 758

tgatgtcgca tgcacgcgta cgtaagctcg gaattcggct cgagngaaat gacaaagctc 60
tctggcactc tgaaatcatc cccgagatgg agatctgcga ttttgacttc gaaccctgtg 120
gctactccat gaatgcgatc catggntctg cattctccac aanccatgtg acgcccagag 180
acggtttnag ctangcnagt tangaggtn tgggctgggn n 221

<210> 759

<211> 493

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 759

gggnnnnnng gnaactnta ccgngccgta ccgtcaana aattcccggg tcnaccacc 60
gtccgnacac gcgtccgctc ccctagccgc cgccgccgcc gtcgtctcc ctgagagggc 120
cgggaccgag gaactggccg agtactaggt agagaatcgg tttttcttgt ctcagccggg 180
gtctgctgcg tctggtggtg gtgaagggga gaaattcgtg agatctgttc cggatcggcg 240
tgcgagctcg ggaatcaggg gtttcacaca tagcttcgtc gatttgaatt tgatgactaa 300
tggagtctaa ggggtggcaa aagtctagca gtagtcgttc taatgatgta tgaactcccc 360
ttggctacag cattgangac gttcgacctg ccggaggcgt naagaanttc cagcctgctg 420
ctactccaac tgcgcnaaag aanccatcct ganaaccctt ttgggctcct catccaataa 480
nttaaggatt tct 493

<210> 760

<211> 218

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 760

cngacntgtg tgccgggatc aggcgtgcna gtcggggaat caggggtttc acacatagct 60
ccttcgattt gaatttgatg tactaatggn gtctaagggg ggcaaaaagt ctagcagtag 120
tcgttctatg atgtatgaag ctccccttgg gctacagcat tgaggangtt cgacctgccg 180

gacgtgaaga agttccagtc tgntgnttac tccaaatg 218

<210> 761
<211> 168
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 761

gcaagaccng gacagangtg gcacgtcttc tacgccacng agtaccaga gcaaccaang 60
gtnaaccttg agangtgcac gacnggtctg gacaagaaga aagcntgtgt cntnncaag 120
actaatgcng atgggaacac aacangtgcc aaggaaatga caaagcnc 168

<210> 762
<211> 151
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 762

ggagagtgtc cctcctccta tgaagaagga ctacaagctg gctaattctc tctgctggna 60
ggaggaaagcg gatgccatgg aggagaaggc gggagtgtt gatgagtaag acgggcttct 120
ggggtcgatt tgcttctgag ttgtttattt t 151

<210> 763
<211> 228
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 763

cttgtcaaga gggtcctccn gtgctttggc ccctcagagt tttcogttgc cgtgaccatc 60
ttcggcgggc gtggccatgc cgggacatgg ggaaaggcac ttggtgcaga ggtctatgac 120
tgcaacaaca atggtggaat aggancttcc tggaaggcgg ggntcctcgt gtaacaaaaa 180
acttctgtgc tgctnaagac ncngttgcta acctcgcccc aaatTTTT 228

<210> 764
<211> 147
<212> DNA

<213> Zea mays
 <400> 764
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 cgtcgcaatt tcgtggttgt cgtttggtta ttctgtgaag cagccaagcc aggctattgt 120
 tatgaaaatt tgtcgtctgt aagcatg 147

<210> 765
 <211> 187
 <212> DNA
 <213> Zea mays
 <400> 765
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 gaggtctatg actgcaacaa catgtggagc aggagctgcc tggaggcggg ctctctgtat 120
 accagagctt ctgcgctgct gaagacgctg ttgtacctt cgcccaaacc tgttttccac 180
 tgctttg 187

<210> 766
 <211> 154
 <212> DNA
 <213> Zea mays
 <400> 766
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 ccagcattgt gttctgattc acctgtcca atggtgttc tttctgtgc tgatgcttcc 120
 ccggtctcag ctatcgggtt tgagggcag agaa 154

<210> 767
 <211> 162
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <400> 767
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 tgtacctctc tgagtcaagc ttgtttatct atccctctga agattgtnat caagacctgt 120
 ggcaactacca agctctgtct caccattcca agaataccttg ag 162

<210> 768
 <211> 320
 <212> DNA
 <213> Zea mays

<400> 768

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ccctccccta gccgccgccg ccgctcgtct ccctgagagg tgccgggacc gaggaactgg 60
ccgagttcta ggtagagaat cggttttgct tgtctcagca cggggtctgc tgcgtctggt 120
ggtggtgaag gggagaaaatt cgtgagatct gttccggatc aggcgtgcga gctcgggaat 180
caggggtttc acacatagct tcgtcgatct gaatttgatg tactaatgga gtctaagggt 240
ggcaaaaagt ctagcagtag tcgttccatg atgtatgaag ctccccttgg ctacagcatt 300
gaggacgttc gacctgccgg 320
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<210> 769
 <211> 295
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 769

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ttttgcttgt ctcagcannn ggtctgctgc gtctggtggt ggtgaagggg agaaattcgt 120
gagatctgtt ccggatcagg cgtgcgagct cgggaatcag gggtttcaca catagcttcg 180
tcgatttgaa tttgatgtac taatggagtc taaggggtggc aaaaagtcta gcagtagtcg 240
ttccatgatg tatgaagctc cccttggtcta cagcattgag gacgttcgac ctgcc 295
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<210> 770
 <211> 329
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 770

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ngtgctgctg aagacgtgtg ntactcgcca atctgttncc actgcttgac ggcgagacgt 180
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ggaagtgtcc tcctcctatg aagaaggata caagctggct aatcttctct gtgggaggag 240
gagcggatnc atggaggaga aggcgggatg cttgattgag tagacgggtt ctggggtcga 300
ttnttctgag tgttattntn cgcgcaatt 329

<210> 771

<211> 511

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 771

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gtgccgggac cgaggactg gncgagttct agggagagaa tcggttttgc ttgtctnagc 180
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gtactaatgg agtctaaggg tggcaaaaag tctagcangg agtcgttcca tgatgtatga 360
agctccccctt ggntacagga ttgaagacgt tagactncct ganggcatga aaaaagttca 420
agctggnggt tnnttcaanc nccncnanaa accgttctntn aattcccttt nggttnccta 480
atctnaaann ttaaganttn ctttcttaaa a 511

<210> 772

<211> 154

<212> DNA

<213> Zea mays

<400> 772

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gctctaggtg gtcagctgcg tctaccacaa tgagcatgta cgtatggaga aatatctgtg 120
aaccattttt gtttatgaat aagatttggt tttt 154

<210> 773

<211> 160

<212> DNA

<213> Zea mays

<400> 773

taagcatgtg aacttccgat gttgccacat gctggatcag tctgaataag taagtatgca 60
gctctaggtg gtcagctgcg tctaccacaa tgagcatgac gtatggagaa atatctgtga 120
acccattttg tttatgaata agatttgttt ttttcgagtt 160

<210> 774

<211> 126

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 774

cctccctcca tctccagcat tgtgttctga ttcacctgct ccaatggctg ttctttctgc 60
tgctgatgct tccccggtct cagctatcgg gtttgnnggc tatgngaagc gccttgagat 120
cacatt 126

<210> 775

<211> 391

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 775

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nccggttgcc aaagaattcc ctcccctagc cgccgccgcc gctcgtctcc ctgagaggtg 120
ccgggaccga ggaactggcc gagttctagg tagagaatcg gttttgcttg tctcagcacg 180
gggtctgctg cgtctggtgg tgggtgaagg gagaaattcg tgagatctgt tccggatcag 240
gcgtgcgagc tcgggaatca ggggtttcac acatagcttc gtcgatttga atttgatgta 300
ctaattggagt ctaagggtgg caaaaagtct agcagtagtc gttccatgat gtatgaagct 360
ccccttggtc acagcattga ggacgttcga c 391

<210> 776

<211> 493

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 776

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 ccgangaact ggccgngttc taggtagaga atnggttttg cttgtctcan cacggggtct 180
 gctgctctg gtggtggtga aggggagaaa ttcgtgagat ctgttccgga tcaggcgtgc 240
 gagctcggga atcaggggtt tcacacatag cttcgtcgat ttgaatttga tgtactaatg 300
 gagtctaagg gtggcaaaaa gtctagcagt antcntcca tgatgtatga agctnccnt 360
 ggctacagca ttgaggacgt cnanctnccc ggaagcntta aanaattnca gnetgtgntt 420
 antnnaactg ncaanaaac nattctgana tnnctttttg gntttntan tnnaanantt 480
 nangantnt ttt 493

<210> 777

<211> 193

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 777

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 agctncnggg ttggtcagnt gcgtctagca naatgagcat gtacgtatgg agaaatntnn 120
 tgtgaacca ttttgtttat gaataagatt tgtttttttt cgagttaaaa naaaaaaaaa 180
 agggcgccn cng 193

<210> 778

<211> 136

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 778

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 gctctntcct tatggtgacc ttgtcaagag ggtccttcgg tgctttggcc cctcggagtt 120
 ttccgttgcc gtganc 136

<210> 779

<211> 117

<212> DNA
 <213> Zea mays
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 gaagcgcctt gagatcacat tctctgaggc acctgtcttt gtggaccctc atgggcg 117

<210> 780
 <211> 253
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 780
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 gaatcagggg ttccacacat agctcgtcga tntgaatttg atgtactaat ggagtctaag 180
 ggtggcaaaa agtctagcag tagtcgttct atgatgtatg aagctcccct tggctacagc 240
 attgatgacg ttc 253

<210> 781
 <211> 273
 <212> DNA
 <213> Zea mays
 <400> 781
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 agatctgttc cggatcaggc gtgcgagctc gggaatcagg ggtttcacac atagcttcgt 180
 cgatttgaat ttgatgtact aatggagtct aagggtggca aaaagtctag cagtagtcgt 240
 tctatgatgt atgaagctcc ccttggctac agc 273

<210> 782
 <211> 110
 <212> DNA
 <213> Zea mays
 <400> 782

gtggagagtg ctctctctcc tatgaagaag gactacaagc tggctaattct tctctgctgg 60
gaggaggaag cggatgccat ggaggagaag gcgggagtgc ttgatgagta 110

<210> 783
<211> 272
<212> DNA
<213> Zea mays

<400> 783
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ttttcttgtc tcagcccggt gtctgctgct tctggtggtg gtgaagggga gaaattcgtg 120
agatctgttc cggatcaggc gtgcgagctc gggaatcagg ggtttcacac atagcttcgt 180
cgatttgaat ttgatgtact aatggagtct aagggtggca aaaagtctag cagtagtcgt 240
tctatgatgt atgaagctcc ccttggctac ag 272

<210> 784
<211> 491
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 784

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tctaggtaga gaatcgggtt tgcttgcttc agcacggggt ctgctgcgtc tgggtggtggt 180
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gacgttcgaa cctgccggaa gcnttnaaga agttncaagt ctgctgntta cttccaactt 420
gngccaaaaa agccatcctg atattcctt tggctttcct aatctaagta agtttaagga 480
ttcctttctt g 491

<210> 785
<211> 273
<212> DNA
<213> Zea mays

<223> unsure at all n locations
 <400> 785

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ttccacagat cacgcgtgcg cgctcgcgaa tcgggggttc cacacatagc ttcgtcgttt   180
tgaatttgat gtactaatgg agtctaangg tggcaagaag tctagcagta gtcgttccat   240
gatgtatgaa gctccccttg gctacagcat tga                                   273
```

<210> 786
 <211> 310
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 786

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gaccgaggaa ctggccgagt tctaggtaga gaatcggttt tgcttgtctc agcacggggg   120
ctgctgcgtc tggnggtggt gaaggggaga aattcgtgag atctgttccg gatcaggcgt   180
gcgagctcgg gaatcagggg tttcacacat agcttcgtcg atttgaattt gatgtactaa   240
tggagtctaa ggggtggcaaa aagtctagca gtagtcgttc catgatgtat gaagctcccc   300
ttggctacag                                   310
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<210> 787
 <211> 307
 <212> DNA
 <213> Zea mays

<400> 787

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ctgcgtctgg tgggtggtgaa ggggagaaat tcgtgagatc tgttccggat caggcgtgcg   180
agctcgggaa tcaggggttt cacacatagc ttcgtcgatt tgaatttgat gtactaatgg   240
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gctacag                                   307
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<210> 788
 <211> 107
 <212> DNA
 <213> Zea mays

<400> 788

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 cctggtgcac agccagcccc ccacaggagc ttctctgagg aagttgc 107

<210> 789
 <211> 265
 <212> DNA
 <213> Zea mays

<400> 789

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 agatctgttc cggatcaggc gtgcgagctc gggaatcagg ggtttcacac atagcttcgt 180
 cgatttgaat ttgatgtact aatggagtct aagggtggca aaaagtctag cagtagtcgt 240
 tctatgatgt atgaagctcc ccttg 265

<210> 790
 <211> 304
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 790

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 ggtgaaaggg agaaattcgt gagatctgtt ccggatcagg cgtgcgagct cgggaatcag 180
 gggtttcaca catagcttcg tcgatttgaa ttgatgtac taatggagtc taaaggggtg 240
 caaaaagtct agcagtagtc gttccatgat gtatgnagct cccctttgct acaacattgn 300
 ggac 304

<210> 791

<211> 149
 <212> DNA
 <213> Zea mays

<400> 791

gcttgtttat ctatcctctg aagattgtca tcaagacctg tggcactacc aagctcctgc 60
 tcaccattac caagaatcct tgagcttgct gaagagctgt ctatgccact tgcaccagga 120
 aagatgaacg tccctagttc tagatcgcg 149

<210> 792
 <211> 273
 <212> DNA
 <213> Zea mays

<400> 792

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 ttccacagat cacgcgtgcg cgctcgcgaa tcgggggttc cacacatagc ttcgtcgttt 180
 tgaatttgat gtactaatgg agtctaaggg tggcaagaag tctagcagta gtcgttccat 240
 gatgtatgaa gctccccttg gctacacatt gag 273

<210> 793
 <211> 285
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 793

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 gtactaggta gagaatcngt ttttcttgct tcagcccggg gtctgctgcg tctggtggtn 120
 ntgaaggnga gaanttcgtg agatctgttc cggatcaggc gtgcnagctc gggantcagg 180
 ggtttcacac atagcttcgt cgatttgaat ttgatgtact aatngagtct aanggtggca 240
 aaaagtctag cagtagtcgt tctatgangt atgaagctcc ccttg 285

<210> 794
 <211> 135
 <212> DNA
 <213> Zea mays

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aaggaaatga caaagctctc tggcatctct gaaatcatcc ccgagatgga gatctgcat 60
ttggacttcg aacctnttgg ctactccann antgcgntcc atggctctng attntgcnac 120
aatccntgtg acgcc 135
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<400>	795	
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a a c t g g c c g a	g t a c t a g g t a	g a g a a t c g g t
60		
t t t t c t t g t c	t c a g c c c g g g	g t c t g c t g c g
t c t g g t g g t g	g t g a a g g g g a	g a a a t t c g t g
120		
a g a t c t g t t c	c g g a t c a g g c	g t g c g a g c t c
g g g a a t c a g g	g g t t t c a c a c	a t a g c t t c g t
180		
c g a t t t g a a t	t t g a t g t a c t	a a t g g a g t c t
a a g g g t g g c a	a a a a g t c t a g	c a g t a g t c g t
240		
t c t a t g a t g t	a t g a a g c t	
258		

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<400> 797

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 cgatttgaat ttgatgtact aatggagtct aagggtggca aaaagtctag cagtagtcgt 240
 tctatgatgt atgaagctcc 260

<210> 798
 <211> 102
 <212> DNA
 <213> Zea mays

<400> 798

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 cttgctcctt gcactcctcc ctctccatc tccagcattg tg 102

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 <211> 254
 <212> DNA
 <213> Zea mays

<400> 799

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 agatctgttc cggatcaggc gtgcgagctc gggaatcagg ggtttcacac atagcttcgt 180
 cgatttgaat ttgatgtact aatggagtct aagggtggca aaaagtctag cagtagtcgt 240
 tctatgatgt atga 254

<210> 800
 <211> 255
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 800

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 agatctgttc tggatcaggc gtgcgagctc gggaatcagg ggtttcacac atagcttcgt 180

cgatttgaat ttgatgtact aatggagtct aagggtggca aaaagtctag cagtagtcgt 240
tctatgatgt atgaa 255

<210> 801
<211> 255
<212> DNA
<213> Zea mays

<400> 801

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agatctgttc cggatcaggc gtgcgagctc gggaatcagg ggtttcacac atagcttcgt 180
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<210> 802
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<212> DNA
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<400> 802

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cgatttgaat ttgatgtact aatggagtct aagggtggca aaaagtctag cagtagtcgt 240
tctatgatgt atgaa 255

<210> 803
<211> 299
<212> DNA
<213> Zea mays

<400> 803

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gcgagctcgg gaatcagggg ttccacacat agctccgtcg atttgaattt gatgtactaa 240

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<210> 804
<211> 295
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 804

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agatctgttc cggatcaggc gtgcgagctc gggaatcagg ggtttcacac atagcttcgt 180

cgatttgaat ttgatgtact aatggagtct aagggtgcaa aaagtctagc agtagtcgtn 240

tatgatgtat aaagcncccc ttggctanag cattgaggac gttnacactg ccggg 295

<210> 805
<211> 255
<212> DNA
<213> Zea mays

<400> 805

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ttccacagat cagcgtgcg cgtcgcgcaa tcgggggttc cacacatagc ttcgtcgttt 180

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gatgtatgaa gctcc 255

<210> 806
<211> 278
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 806

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aggggagaaa ttcgngagat ctgttccgga tcaggcgtgc nanctcgga atcaggggtt 180
tcacacatag cttcgnccan ttgantntna tgtactaatg gagtctaagg gtggcaaaaa 240
gtctagcagt agncgttcta tgatgtatga agctcccc 278

<210> 807
<211> 127
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 807

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aatttgatgt actantggag tctaagggtg gcaaaaagtc tagcagtagt cgttctatga 120
tgtntga 127

<210> 808
<211> 251
<212> DNA
<213> Zea mays

<400> 808

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cgatttgaat ttgatgtact aatggagtct aagggtggca aaaagtctag cagtagtcgt 240
tctatgatgt a 251

<210> 809
<211> 250
<212> DNA
<213> Zea mays

<400> 809

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<210> 810
<211> 250
<212> DNA
<213> Zea mays

<400> 810

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agatctgttc cggatcaggc gtgcgagctc gggaatcagg ggtttcacac atagcttcgt 180
cgatttgaat ttgatgtact aatggagtct aagggtggca aaaagtctag cagtagtcgt 240
tctatgatgt 250

<210> 811
<211> 260
<212> DNA
<213> Zea mays

<400> 811

tcattctgcc gagaggtgac gggaccgagg aactcgccga gttctaagat agagaatcgc 60
ttttcacagc ctgggggtctg ctgcgtaggg tgggtgtgaa ggggagaagt ttaagatctg 120
ttccacagat cacgcgtgcg cgcttcgcga atcggggggt ccacacatag cttcgtcgtt 180
ttgaattgat gtactaatgg agtctaaggg tggcaagaag tctagcagta gtcgttccat 240
gatgtatgaa gctccccttg 260

<210> 812
<211> 257
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 812

cgccgcccgt catctcgccg agaggtgacg ggaccgagga actcgccgag ttctaagata 60
gagaatcgtc ttccacagcc tgggggtctgc tgcgtanggt ggtgttgaag gggagaagtt 120
taagatctgt tccacagatc acgcgtgcmc gctcgcgaat cgggggttcc acacatagct 180

tcgtcgtttt gaatttgatg tactaatgga gtctaagggt ggcaagaagt ctagcagtag 240
 tcgttccatg atgtatg 257

<210> 813
 <211> 155
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 813

tcgattctta ccaatccccc tggcctgctg ctttctgac aatcgaccag ttccccagtc 60
 ttgtccctgc agtcctccct ctccatctcc agcgttgtgt tctgactcac ctgcaccaat 120
 ggctgttctt tctgctgctg gtgtcccccg gntca 155

<210> 814
 <211> 276
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 814

anaattccct cccctagccg ccgccgccgc tcgtctccct gagagggtgcc gggaccgagg 60
 aactggccga gttctaggna ganaatcgggt tttgcttgct tcagcacggg gtctgctgcg 120
 tctggtggtg gtgaagggga gaaattcgtg agatctgttc cggatcaggc gtgcnagctc 180
 gggaatcagg ggtttcacac atagcttcgt cgatttgaat ttgatgtact aatggagtct 240
 aagggtggca aaaagtctag cagtagtcgt tccatg 276

<210> 815
 <211> 97
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 815

gnagattgtc atcaagacct gtggcactac canagctcct gctcaccatt ccaagaatcc 60
 ttgagcttgc ngaaganctg tctatgccan ttggctg 97

<210> 816

<211> 262
 <212> DNA
 <213> Zea mays

 <400> 816

 ccctagccgc cgccgccgct cgtctccctg agaggtgccg ggaccgagga actggccgag 60
 ttctaggttag agaatcggtt ttgcttgtct cagcacgggg tctgctgcgt ctggtggtgg 120
 tgaaggggag aaattcgtga gatctgttcc ggatcaggcg tgcgagctcg ggaatcaggg 180
 gtttcacaca tagcttcgtc gatttgaatt tgatgtacta atggagtcta aggggtggcaa 240
 aaagtctagc agtagtcggt cc 262

<210> 817
 <211> 281
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 817

 gttgccaaan aattccntcc cctagccgcc gccgccgctc gtctccctga gaggtgccgg 60
 gaccgaggaa ctggccgagt tctaggtaga gaatcggttt tgcttgtctc ancacggggg 120
 ctgctgcgtc tgggtggtgg gaaggggaga aattcgtgag atctgttccg gatcaggcgt 180
 gcgagctcgg gaatcagggg ttccacacat agcttcgtcg atttgaattt gatgtactaa 240
 tggagtctaa ggggtggcaa aagtctagca gtagtcgttc c 281

<210> 818
 <211> 250
 <212> DNA
 <213> Zea mays

 <400> 818

 tcattctgcc gagaggtgac gggaccgagg aactcgccga gttctaagat agagaatcgc 60
 ttttcacagc ctgggggtctg ctgcgtaggg tgggtgtgaa ggggagaagt ttaagatctg 120
 ttccacagat cacgcgtgcg cgctcgcgaa tcgggggttc cacacatagc ttcgtcgttt 180
 tgaattgatg tactaatgga gtctaagggt ggcaagaagt ctagcagtag tcgttccatg 240
 atgtatgaag 250

<210> 819
 <211> 253
 <212> DNA
 <213> Zea mays

 <400> 819

 ttcgtctccc tgagaggtgc cgggaccgag gaactggccg agtactaggt agagaatcgg 60
 tttttcttgt ctacgcccgg ggtctgctgc gtctggtggt ggtgaagggg agaaattcgt 120
 gagatctgtt ccggatcagg cgtgcgagct cgggaatcag gggtttcaca catagcttcg 180
 tcgatttgaa tttgatgtac taatggagtc taaggggtggc aaaaagtcta gcatagtcgt 240
 tctatgatgt atg 253

<210> 820
 <211> 247
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 820

 tcgtctccct gagaggtgcc gagaccgagg aactggccga gtactaggta gagaatcgg 60
 ttttcttgtc tcagcccggg gtctgctgcg tctggtggtg gtgaagggga gaaattcgtg 120
 agatctgttc cggatcaggc gtgcgagctc gggaatcagg ngtttcacac atagcttcgt 180
 cgatttgaat tgatgtacta atggagtcta aggggtggcaa aaagtctagc agtagtcggt 240
 ctatgat 247

<210> 821
 <211> 279
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 821

 attccctccc ctagccgccg ccgccgctcg tctccctgag aggtgccggg accgaggaac 60
 tggccgagtt ctaggtagag aatcggtttt gcttgtctca gcacgggtct gctgcgtctg 120
 gtggtggtga aggggagaaa ttcgtgaaga tctgttccgg ntcaaggcgt gcgatctcgg 180
 gaatcagggg tttcacacat agcttcgtcg atttgaattt gatgtactaa tggagtctaa 240
 ggggtggcaa aagtctagcc agtagtcggt ccatgatgt 279

<210> 822
 <211> 253
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 822

 tcgtctccct gagaggtgcc gggaccgagg aactggccga gtactangta nagaatcnnc 60
 ttttcttgtc tcagcccggg gtctgctgcg tctggtggtg gtgaagggga gaaattcgtg 120
 agatctgttc cggatcaggc gtgcgagctc gggaatcagg ggtttcacac atagcttcgt 180
 cgatttgaat ttgatgtact aatggagtct aagggtngnn aaaagtctag cagtagtcgt 240
 ctatgatgta tna 253

<210> 823
 <211> 269
 <212> DNA
 <213> Zea mays

 <400> 823

 caaagaattc cctcccctag ccgccgccgc cgctcgtctc cctgagaggt gccgggaccg 60
 aggaactggc cgagttctag gtagagaatc ggttttgctt gtctcagcac ggggtctgct 120
 gcgtctggtg gtggtgaagg ggagaaattc gtgagatctg ttccggatca ggcgtgcgag 180
 ctcggaatc aggggtttca cacatagctt cgtcgatttg aatttgatgt actaatggag 240
 tctaagggtg gcaaaaagtc tagcagtag 269

<210> 824
 <211> 296
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 824

 cttcttggtg ccaaagaatt ccctccccta gccgccgccg ccgcttcgtc tccctgagag 60
 gtgccgggac cgangaactg gccgagttct aggtagagaa tcggttttgc ttgtctcagc 120
 acgggggtctg ctgcgtctgg tgggtgtgaa ggggagaaat tcgtgagatc tgttccggat 180
 caggcgtgcg agctcgggaa tcaggggttt cacacatagc ttcgtcgatt tgaatttgat 240

gtactaatgg agtctaaggg tggcaaaaag tctagcagta gtcttccatg atgtat 296

<210> 825
 <211> 296
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 825

gncaaagaat tccctcccct agccgccgcc gccgctcgtt tccctgagag gtgccgggac 60
 cgaggaactg gccgagttct aggtagagaa tcggtnttgc ttgtctcagc acgggggtctg 120
 ctgcgtctgg tgggtggtgaa ggggaganat tcgtgagatc tgttccggat caggcgtgcg 180
 agcncgggaa tcaggggttt cacacatagc tcgtcgattt gaatttgatg tactaatgga 240
 gtctaagggg ggcaaaaagt ctagcatagt cgttccatga tgtatgaagc tcccct 296

<210> 826
 <211> 267
 <212> DNA
 <213> Zea mays

<400> 826

aaaagaattc cctcccctag ccgccgccgc cgctcgtctc cctgagaggt gccgggaccg 60
 aggaactggc cgagttctag gtagagaatc ggttttgcct gtctcagcac ggggtctgct 120
 ggtctggtgg tgggtgaaggg gagaaattcg tgagatctgt tccggatcag gcgtgcgagc 180
 tcgggaatca ggggtttcac acatagcttc gtcgatttga atttgatgta ctaatggagt 240
 ctaaggggtg caaaaagtct agcagta 267

<210> 827
 <211> 506
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 827

gagcggnnnn tnnntatggt ggggggnnta atnnttctac tgggtccggaa ttcccgggtc 60
 gaccacgcg tccggttgcc aaagaattcc ctcccctagc cgccgccgcc gctcgtctcc 120
 ctgagaggtg ccgggaccga ggatttggcc gagttctagg tagagaatcg gttttacttg 180

tctcagcccg gggctctgctg cgtctgggtg tggatgaagg gagaaattcg tgagatctgt 240
tccggatcag gcgtgcgagc tcgggaatca ggggtttcac acatagcttc gtcgatttga 300
atttgatgta ctaatggaat ctaanggtgg caaaaaantct aacaataatc gntctatgaa 360
tggatgaaac tnccttggc tncancattg aagaccttcg anctnnccga agcnttaaaa 420
aattccagtc tgntgggttac ttcaactnng ccgaaaaacc attctggaat tccctttngn 480
tttcctnaat ctaatannta aggatt 506

<210> 828
<211> 295
<212> DNA
<213> Zea mays

<400> 828

ctcggaaattc ggctcgagaa agaattccct cccctagccg ccgcccgcgc tcgtctccct 60
gagaggtgcc gggaccgagg aactggccga gttctaggta gagaatcggg tttgcttgct 120
tcagcacggg gtctgctgcg tctggtgggt gtgaagggga gaaattcgtg agatctgttc 180
cggatcaggc gtgcgagctc gggaatcagg ggtttcacac atagcttcgt cgatttgaat 240
ttgatgtact aatggagtct aagggtggca aaaatctagc agtagtcgtt ccatg 295

<210> 829
<211> 265
<212> DNA
<213> Zea mays

<400> 829

gttgccaaag aattccctcc cctagccgcc gccgccgctc gtctccctga gaggtgccgg 60
gaccgaggaa ctggccgagt tctaggtaga gaatcggttt tgcttgtctc agcacggggg 120
ctgctgcgtc tgggtgggtg gaaggggaga aattcgtgag atctgttccg gatcaggcgt 180
gcgagctcgg gaatcagggg ttccacacat agcttcgtcg atttgaattt gatgtactaa 240
tggagtctaa ggggtggcaa aagtc 265

<210> 830
<211> 271
<212> DNA
<213> Zea mays

<400> 830

cttcttgttg ccaaagaatt ccctccccta gccgcgcgcg ccgtcgtct cctgagagg 60
tgccgggacc gaggaactgg ccgagttcta ggtagagaat cggttttgct tgtctcagca 120
cggggtctgc tgcgtctggt ggtggtgaag gggagaaatt cgtgagatct gttccggatc 180
aggcgtgcga gctcgggaat caggggtttc acacatagct tcgtcgattt gaatttgatg 240
tactaatgga gtctaagggt ggcaaaaagt c 271

<210> 831

<211> 228

<212> DNA

<213> Zea mays

<400> 831

tcattctgcc gagaggtgac gggaccgagg aactcgccga gttctaagat agagaatcgc 60
ttttcacagc ctggggctctg ctgcgtaggg tgggtgttgaa ggggagaagt ttaagatctg 120
ttccacagat cacgcgtgcg cgctcgcgaa tcgggggttc cacacatagc ttcgtcgttt 180
tgaatttgat gtactaatgg agtctaaggg tggcaagaag tctagcag 228

<210> 832

<211> 227

<212> DNA

<213> Zea mays

<400> 832

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tttcttgtct cagcccgggg tctgctgcgt ctggtggtgg tgaaggggag aaattcgtga 120
gatctgttcc ggatcaggcg tgcgagctcg ggaatcaggg gtttcacaca tagcttcgtc 180
gatttgaatt tgatgtacta atggagtcta agggtgggcaa aaagtct 227

<210> 833

<211> 270

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 833

gttgccaaag anttccctcc cctagccgcc gccgccgctc gtactccctg agaggtgccg 60
ggaccgagga actggccgag ttctaggtng agnatcggtt ttgcttgtct cagcacgggg 120
tctgctgcgt ctggtggtgg tganggggag aaattcgtga gatctgttcc ggatcaggcg 180
tgcgagctcg ggaatcaggg gtttcacaca tagcttcgtc gatttgaatt tgatgtacta 240
atggagtcta anggtggcaa aaagtctanc 270

<210> 834
<211> 222
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 834

tcgtctccct gagaggtgcc gggaccgagg aactggccga gtactaggta gagaatcggt 60
ttttcttgtc tcagcccggg gtctgctgcg tctggtggtg gtgaagggga gaaattcgtg 120
agatctgttc cggatcaggc gtgcgagctc gggaatcagg ggtttcacac atagcttcgt 180
cgatttgaat ttgatgtact aatggagtct aagggtggca aa 222

<210> 835
<211> 261
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 835

aaagaattcc ctcccctagc cgccgcngcc gctcgtctcc ctgagagggtg ccgggaccga 60
ggaactggcc gagttctagg tagagaatcg gttttgcttg tctcagcacg gggctctgctg 120
cgtctggtgg tgggtgaagg gagaaaattcg tgagatctgt tccggatcag gcgtgcgagc 180
tcgggaatca ggggtttcac acatagcttc gtcgatttga atttgatgta ctaatggagt 240
ctaagggtgg caaaaatcta c 261

<210> 836
<211> 97
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 836

tcagctgcgt ctaccacaat gagcatgaac gtatggngac atatctgtga acccattttg 60
 tttatgaata agatttggtt ttntcgagtn aaaaaaa 97

<210> 837
 <211> 229
 <212> DNA
 <213> Zea mays

<400> 837

gtctccctga gaggtgccgg gaccgaggaa ctggccgagt tctaggtaga gaatcggttt 60
 tgcttgcttc agcacggggg ctgctgcgtc tgggtggtgg gaaggggaga aattcgtgag 120
 atctgttccg gatcaggcgt gcgagctcgg gaatcagggg ttccacacat agctcgtcga 180
 ttggaatttg atgtactaat ggagtctaag ggtggcaaaa agtctagca 229

<210> 838
 <211> 254
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 838

ganttccctc ccctagccgc cgccgccgct acgtctccct gagaggtgcc ggganccagg 60
 aactggccga gttctaggta gagaatcggg ttgtctgtgc tcagcacggg gtctgctgcg 120
 tctggtggtg gtgaagggga gaaattcgtg agatctgttc cggatcaggc gtgcgagctc 180
 gggaatcagg ggtttcacac atagcttcgt cgatttgaat ttatgtact aatggagtct 240
 aagggtggca aana 254

<210> 839
 <211> 493
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 839

caaagaattc cctcccctag ccgccgncgn cgctcgtctc cctgaagaag gtgcccggga 60
 ccgaggggatt tggcccgagt tctaggtaag aagaaatcgg gttttacttg tctcaagccc 120
 gggggtctgc ttgcgtctgg tgggtgggtga aagggaaga aattcgtgaa gatctgttcc 180

ggatcaggcg tgcgaanctc gggaatcagg gggtttcaca cataagcttc gtcgatttga 240
 atttgatgta ctaaattgga agtctaaagg gtggcaaaaa gtctagcagt aagtccgttc 300
 tatgatgtat gaaacttccc ttgggttaca gcatttgaag gacgttcgac ctggccggan 360
 gccttgaaga angttccagt ctgnttgntt acttcaactt gngccaaaaa accattcttg 420
 atattccttt tgggntttcc tcaatctagt annttaanga nttcttttct gacacttttg 480
 aatcttganc caa 493

<210> 840
 <211> 296
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 840

angnacgcgt acgtnagctc gnaattcngc tcgagcggct cgagcnaaga attccttccc 60
 ctagccgccg ccgncgccgc tcgtctccct gagaggtgcc ggnaccgagg aactggccga 120
 gtactaggta gagaatcgnt ttttcttgct tcagcccggg gtctgctgctg tctgggtggtg 180
 gtgaanggga gnaattcgtn agatctgttc cggatcaggc gtgagagctc gggaatcagg 240
 ggtttcacac atagcttcgt cgatttgaat ttgatgtact aatggagtct aagggt 296

<210> 841
 <211> 292
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 841

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 cgggaccgat gaactngccg agtactaggt agagaatcgg tttntcttnt ctcagcccgg 120
 ggtctgctnc ntctggtggt ggtgaagggg agaaattcgt ganatctgtt ccggancatg 180
 cgtgngagct cnggaatcag gggtttcaca catagcttcg tcgatttgaa tntgatgtat 240
 aatggatcta agggtnghaa naantctagc agtagtcgtn cnagntgnat ga 292

<210> 842
 <211> 254

<212> DNA
 <213> Zea mays
 <400> 842
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 gagaatcgct tttcacagcc tgggggtctgc tgcgtagggt ggtgttgaag gggagaagtt 120
 taagatctgt tccacagatc acgcgtgcgc gctcgcgaaat cgggggttcc acacatagct 180
 tcgtcggttt gaattgatgt actaatggag tctaaagggt gcaagaagtc tagcatatcg 240
 ttccatgatg tatg 254

<210> 843
 <211> 255
 <212> DNA
 <213> Zea mays
 <400> 843
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 cgaggaaactg gccgagttct aggtagagaa tcggttttgc ttgtctcagc acgggggtctg 120
 ctgcgtctgg tgggtggtgaa ggggagaaaat tcgtgagatc tgttccggat caggcgtgcg 180
 agctcgggaa tcaggggttt cacacatagc ttcgtcgatt tgaattgatg tactaatgga 240
 gtctaagggt ggcaa 255

<210> 844
 <211> 214
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <400> 844
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 ttttcacagc ctgggggtctg ctgcgtagggt tgggtgtgaa ggggagaagt ttaagatctg 120
 ttccacagat cacgcgtgcg cgctncgcga atcggggggt ccacacatag cttcgtcggt 180
 tgaatttgat gtactaatgg agtctaagggt tggc 214

<210> 845
 <211> 798
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 845

gccacgcgtg cgncaaaaca acaatgnntn tnntttggag ggcttttgaa aaagcccctt 60
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ggngcacaaa ttgtgtcccg agctcttcca acaagggtt tccgactcat atgtcctttc 240
tgaggcaaag cttgnattatc tctcctctga agattgtcat caaagacctg tggcactacc 300
aagctcctgc tcaccattcc aaagaatcct tgaacttgct tgaaaaactt gtctatgccca 360
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ccccccacaa ggaacttctt ttgaaggaag ttgntgnact ttaaaccgct tcttttggcc 480
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tnaaccttna aaagggccnt gactgggctg ggcnnnnnnn nnnnnnnnnn nnnnnnnnaa 660
naataatgtt gangggaaca caacttgggc caagggaaat ganaaacttt ttgnnttttg 720
aaaatatncc ccgaanggaa aacngnantt tantttaacc cggggttttc aggaaggggc 780
ccagggtttg ttttcnaa 798

<210> 846

<211> 268

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 846

tcgtctccct gagaggtgcc gggaccgagg aactggccga gtactaggta gagaatcggt 60
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aganctgtac cactcaggcg tgcgagctcg ggaatcaggg gtttcacaca tagcttcgtc 180
gatttgaatt tgatgtacna tggagtctaa ggggtggcaaa aatctagncn tatcgtttcta 240
ngattatnaa gccccctngg taaannat 268

<210> 847

<211> 276
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 847

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 ggtagagaat cggtttttct tgtctcagcc cgggggtctgc tgcgtctggt ggtgggtgaag 120
 gggagaaatt cgtgagatct gttccggatc angcgtgcga gctcgggaat caggggtttc 180
 acacatagct cgtcgatttg aatttgatgt acnaatggat cnaaggggtg caaaaagtct 240
 agcagnagtc gtctatgatg tatgaagctc cccttg 276

<210> 848
 <211> 185
 <212> DNA
 <213> Zea mays

 <400> 848

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 tgtctgtgca tcttgctcta aaacaatcgc agtcctgcaa gttgttgctg ttgctcctac 120
 ccctgcctct gcaattgggt ttgagggata tgagaagcgc ctcgagatca gcttctatga 180
 ggcac 185

<210> 849
 <211> 519
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 849

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 ccgggtcgac ccacgcgtcc gagagcttcg actcatatgt tctgtccgag tccagcctct 120
 ttgtgtatcc gggacagggt tgttctgaag acctgtggga cgacgaagct gctgctcgcc 180
 attcctcgca tccttgagct tgctgcaggg ctgtcactgc ctcttctttc agcgaagtac 240
 tctcgtggga ccttcatctt ccccggcgcg cagcccgcg caccgcgag cttctcggag 300
 gaggtatctg tgctgaacgc tttctttgggt aacctcaagt ccggtggcaa tgcctacctg 360

atcgggtgaac cgttcaagcc caacaagaag tggcatgtct actacgccac agaggagcct 420
gagcgtccta tggtagacgt tgagatgtgc atgacagagc ttgacgttaa gaaagctgct 480
gtgttcttca agaacttcac tggtaggcaac ttnacntna 519

<210> 850

<211> 324

<212> DNA

<213> Zea mays

<400> 850

atgagaagcg cctcgagatc acgttctctg actcgctgt ctttgaggac ctttgtggtc 60
gtggcctgcg cgccctctcc cgtgagcaga tcgactcggt tctggatctc gcacgggtgca 120
ccatagtgtc acagctctcc aacgagagct tcgactcata tgttctgtcc gaggccagcc 180
tctttgtgta tccccacaag gttgttctga agacctgtgg gacgacgaag ctgctgctcg 240
ccattcctcg catccttgag cttgctgcag ggctgtcact gcctcttctt tcagcgaagt 300
actctcgtag gaccttcac ttcc 324

<210> 851

<211> 260

<212> DNA

<213> Zea mays

<400> 851

gaagcgctc gagatcacgt tctctgacgc gcctgtcttt gaggaccctt gtggctcgtg 60
cctgcgcgcc ctctcccgtag agcagatcga ctcgtttctg gatctcgac ggtgcacccat 120
agtgtcacag ctctccaacg agagcttcga ctcatatgtt ctgtccgagt ccagcctctt 180
tgtgtatccc cacaagggtg ttctgaagac ctgtgggacg acgaagctgc tgcctgccat 240
tcctcgcatc cttgagcttg 260

<210> 852

<211> 272

<212> DNA

<213> Zea mays

<400> 852

agcgccctga gatcacgttc tctgacgcgc ctgtctttga ggacccttgt ggtcgtggcc 60

tgcgcgccct actcccgatga gcagatcgac tcgtttctgg atctcgacg gtgcaccata 120
 gtgtcacagc tctccaacga gagcttcgac tcatatgttc tgtccgagtc cagcctcttt 180
 gtgtatccca caaggttgtt ctgaagacct gtgggacgac gaagctgctg ctcgccattc 240
 ctgcatacct tgagcttgtt gcaggctgtc at 272

<210> 853
 <211> 239
 <212> DNA
 <213> Zea mays

<400> 853

gcgcctcgag atcacgttct ctgacgcgcc tgtttttgag gacccttgtg gtcgtggcct 60
 gcgcgccctc tcccgtgagc agatcgactc gtttctggat ctgcacgggt gcaccatagt 120
 gtcacagctc tccaacgaga gtttcgactc atatgttctg tccgagtcca gcctctttgt 180
 gtatccccac aaggttgttc tgaagacctg tgggacgacg aagctgctgc tcgccattc 239

<210> 854
 <211> 267
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 854

cctgcgcgcn ctntcncgtg agcagatcga gtcgtttctg gatctcgac ggtgcaccat 60
 agtgtctcag ctctnccaan gagagctncg actcatatgt tctgtncgag tccagcctct 120
 ttgtgtatcc ccacaaggnt gttctgaaga cctgtggnac gacgaagctg ctgctcgca 180
 ttctcgcat ccttgagctt gctgcagggc tgtcantgcc tcttctttca gcgaagtact 240
 ctgctgggac cttcatcttc cccggcg 267

<210> 855
 <211> 295
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 855

attggctttg agggctatga gangcgcctc gagatcacgt tctctgacgc gcctgtcttt 60

gaggaccctt gtggtcgtgg cctgcgcgcc ctctcccggtg agcagatcga ctcgtttctg 120
gatctcgac ggtgcacat agtgtcacag ctctccaacg agagcttcga ctcatatgtt 180
cagtccgagt ccagcctctt gtgtatcccc acaaggttgt tncgaagact gtgggacgac 240
gaagctgctg ctcgccattc ctgcgcatct gagntgctgc aggctgtcat gcctc 295

<210> 856
<211> 266
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 856

caccatagtg tcacanctct ccaacgagag cttcgactca tatgttctgt ccgaatccag 60
cctcttttggtg tatccccaca aggttggttct caagacctgt gggacnacga agctgctgct 120
cgccattcct cgcctccttg agcttgctgc agggctgtca ctgcctcttc tttcagcgaa 180
gtactctctt gggaccttca tcttccccgg cgcgcagccg cgccacaccg cagcttctcg 240
gaggaggtat ctgtgctgaa cgcttt 266

<210> 857
<211> 316
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 857

cagcctcttt gtgtatcccc acaaggttgt tctgaagacc tgtgggacga cgaagctgct 60
gtcgcgcatt cctcgcattc ttgagcttgc tgcagggtgt tcaactgcctc ttctttcagc 120
gaagtactct cgtgggacct tcatcttccc cggcgcgcga cgcgcgcaca ccgcagcttc 180
tcggaggagg tatctgtgct gaacgctttc tttggtaacc tcaagtccgg tggcaatgcc 240
tacctgatcg gtgaaccgtt caagcccaac aagaagtggc atgtctacta cgccacagag 300
gagcctgagc gtccta 316

<210> 858
<211> 219
<212> DNA
<213> Zea mays

<400> 858

ggatatcttaa acttagaact cttcagcgtg catcatatac tcattacttc tatgaagcaa 60
ctgttggtgc tggcctccct atcattagca ctctgcgtgg tctcctagag acaggtgaca 120
agatattgcg cattgaaggg attttcagtg gaacgttaag ttatatTTTT aacaacttcg 180
aaggagcaag aacctttagt gatgttggtg ctgaagcaa 219

<210> 859

<211> 323

<212> DNA

<213> Zea mays

<400> 859

cagcactcca ggagtcagtg caatactttt tgatgcatta gcaaaggcaa acattaatgt 60
tcgagcaata gctcaagggt gcagtgaata caatattact gttgtattga agcaacaaga 120
ttgtgtaagg gctctgagag ctgctcactc aaggttcttc ctctccaaaa ccacacttgc 180
tggtgggatc attggacctg gtttaattgg tggagcactc cttaaccagt tgaagaatca 240
gactgctgtt ctcaaggaaa atatgaacat tgatctgcgt gtcattggaa taactggctc 300
aagtacaatg cttttgagcg aca 323

<210> 860

<211> 310

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 860

ctttctgata ttctgtgaa gagccttgtg ccagaaacac ttgcagcatg ctcgtcagca 60
gatgaattca tgcagaagct accatccttt gacgaggact gggccaggca acgcagtgag 120
tgctgatgcn gcagacgaag tcctgcgtta cgttggagtg gtggatacgg tgaacaagag 180
gggacagggtg gagctacgta ggtacaagag ggaccaccgg ttcgcgcant ctccggetcc 240
gacaacatca tcgcattcac cacctcgagg tacaaggagc agccgctaata cgtgcggngc 300
ccaggcgcgg 310

<210> 861

<211> 242

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <400> 861
 tgaacactct gtatgctttg ctgttccaga aaaggaagtt gcattggttt ctgcagcctt 60
 gcatgctagg tttcgtgaag cattggcagc agggagggtta tctaaggttg aagtcattcn 120
 taattgtagc atccttgcta ctgtcggcct gaggatggca agtacacctg gagtcagcgc 180
 gacccttttt gatgcactag ctaaggcaaa tnttaatgta agggcgatan tcaaggttgc 240
 ag 242

<210> 862
 <211> 303
 <212> DNA
 <213> Zea mays
 <400> 862
 tgaaaaacga cttgaaaaat ggttttctcg atgtccggct gagacaataa ttgctactgg 60
 gtttattgcy agtacacctg aaaacatccc aacaacctta aaaagagatg gaagtgattt 120
 ctctgcagcc ataattgggt cccttggtta ggctcgccag gtgaccatct ggactgatgt 180
 tgatggggta tttagtgcag atcccagaaa agttagtgcg gctgtaatct taagcacatt 240
 gtcgtatcag gaggcctggg aaatgtcata ttttggggca aatgtcttgc atccacgtac 300
 tat 303

<210> 863
 <211> 294
 <212> DNA
 <213> Zea mays
 <400> 863
 gtgaagtcag catatctttg aacttgatc catcgaaact atggagttgt gaattggttc 60
 agcacaaaaa tgaacttgat gatgtcattg aagagcttga gaagatagca gttgttcac 120
 tactgcagaa caggtaata atatcttta tttgaaatgt gcagaggtcg tctttgattc 180
 ttgaaaaggc tttcaatgtt ctacgaagaa acgggtgtcaa tgtccagatg atatcgcaag 240
 gggcgtccaa ggtgaacatt tccttggtgg tccatgacag tgaggcaaaa cagt 294

<210> 864
 <211> 224
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 864

gttgctacca gtgaagttag tgtttctgtg tcacttgatc catcaaagat ctggagtagg 60
 gaactgatac agcaggaact tgaccatgta gttgaagagc ttgagaaaat agcaattggt 120
 cgtctacttc agcagagggc gataatttca cttatcggaa atgtggagca atcgtnctc 180
 atactagaaa agacgggacg tgtgctgagg aaaagtgggg ttat 224

<210> 865
 <211> 240
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 865

tggagtgggtg gatgtggtca gcaagaaggg gcagggtggag ctgcgagcct acaagagggn 60
 cccaccggtt cgcgactat ctggttccga caacatcata gccttcacca cctcgaggta 120
 caaggatcag ccactgatcg tgcgagggtcc gggggctggt gcggaagtga ctgcaggagg 180
 cgtcttctgc gacatactgc gcctgtcttc ctaccttggt gccccctcgt agtctgtcaa 240

<210> 866
 <211> 243
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 866

cttgggatta agagaaattc aggtttggaa agatgttgat ggtgttttaa catgtgaccc 60
 aaatatccat cctaaggcaa aacctgtgcc atacttgaca tttgatgagg cagctgaact 120
 tgcctatfff ggagcgcagg ttttgcatcc acaatcaatg cggccagcta gagaaggcga 180
 tgtacctgtg aggggtaaga atcttataac cgtcgngccc ctggtaccct tatcataaag 240
 cng 243

<210> 867
 <211> 286
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 867

 gaaggtcata attcttgcaa gggaaatctgg tttggggcctt gaactttctg atattcctgt 60
 acgaagtctt gtgccggang cttnaagtca tgtacctcag ccgacgaata catgcagaag 120
 ttaccatctt ttgacgagga ttgggcaaga gagaggaaaa atgctgaagc tgcgggagaa 180
 gttctgcggt atgttggagt ggtgnatgtg gtcncaaaaa gggccnaggt gaantnngcc 240
 ctnaaagggg ggccccccnt ttggnnaaaa ntggtcncaa aaaaaa 286

<210> 868
 <211> 275
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 868

 aagagaagct acaaactgaa gcagaacctg ccaatcttga taagtttggt catcatttgt 60
 ctgagantca cttttttcct aacagagttt tggtagattg cacagcagat acaagtgttg 120
 catctcacta ttatgattgg ctaaagaaaag gaatccatgt catcactcca aacaagaaaag 180
 caaattcagg gccacttgac aggtatctta aacttagaac tcttcagcgt gcatcatata 240
 ctcattactt ctatgaagca actgttggtg ctggc 275

<210> 869
 <211> 241
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 869

 ctttagtgat gttgttgctg aagcaaaaaa agcaggatac acagaaccag atccaagaga 60
 tgatctgtct ggtactgatg ttgccaggaa ggtcataatt cttgcaaggg aatctggttt 120
 ggggctgagc tttctgatat tcctgtacga agtcttgtgc cagangcact taagtcatgt 180
 acctcagccg atgaatacat gcagaagtta ccatcttttg acgaggattg ggcaagagag 240

a

241

<210> 870
 <211> 292
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 870

atggattaat gatcctgcta tacctatagt cactggcttt cttggcaagg gatggagatc 60
 tgggtgcaata actanttggg caggggtggg agcgacttga cagctacaac cattggcaaa 120
 gccttgggat taagagaaat tcaggtttgg aaagatgttg atgggtgttt aacatgtgac 180
 ccaaatatcc atcctaaggc aaaacctgtg ccatacttga cattgatgag gcagctgaac 240
 ttgcctattt ggagcgcagt ttgcatcca caatcaatgc ggccactaga ga 292

<210> 871
 <211> 226
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 871

gggaatgccc aggcgggggtt caccttcgtc atgaagtctg gcggctcgtc gctcgcgtca 60
 gccgagcgga tgcgggangt ggccggcctc atccttagct tcctcgacga gatgcctgtc 120
 gccgtcctct ccgccatggg gaagaccacc aataacctn tcctaggacc ttccatttct 180
 agctctcagc gcctgagtca gggtgctcga ttcttcgtta tagtaa 226

<210> 872
 <211> 285
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 872

gtcattgatt cttgaaaagg cattcaacgt tctgcgaaga aatgggtgta atgtcnagat 60
 gatctcaciaa ggggcgtcca aggtgaacat atccttggta gtcaatgaca gtgaggcaaa 120
 acagtgcgta caagccctcc attcagcgtt ctttgagaat ggattcttgt cggaggtaga 180
 gggagctgac gtccccaga acggagcctc tctgaactca aatggcgctg tctatggaaa 240

ctagtcgact ctgcaactgc tttcttcaca atttgtgtac cattg 285

<210> 873

<211> 286

<212> DNA

<213> Zea mays

<400> 873

ccaaggcgtc cgaaatccct gagctcgctg tcatcaagga cctgcatctt aggacggttg 60

atgagctcgg tttagatagg tcgattgttt caggtttatt ggatgaattg gagcaacttc 120

ttaaaggagt tgctatgatg aaagagctga cccttaggac aagagattac cttgtttcct 180

ttggtgaatg tatgtcgaca agaataattg ctgcatatct gaacaaactt gggaaaaaag 240

cacgccatat gatgcattga tatggcttat aaccaccgat gatttc 286

<210> 874

<211> 293

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 874

ttcacaaatg cggatattct tgaagccact taccctgctg ttgcgaagag gctacatgaa 60

gactggatgg atgaccctgc tattcctata gtcactgggt ttcttgggaa gggatgtaaa 120

tcatgtgctg tcaccacttt aaggcagggg tggtagtgac ttgacagcta caaccattgg 180

caaagccttg gggattaaga gaaatccagg ttggaaggat gtagatgggt tgtgacatgt 240

gacctnata tatatggcaa atgctatanc ccgtgcctac ttgactttgg atg 293

<210> 875

<211> 266

<212> DNA

<213> Zea mays

<400> 875

actgccaaagt cccttggcta tacagaacca gatccacgtg atgatctagg tggaatggat 60

gtcgctagaa aggcatgat cctggctagg cttcttgggc aacagataag catggagagt 120

atcaatgttg aggtttatat cctagtgaat taggacctga tgcagtgtcc acaaaggact 180

tcctgaaagt ggttttagtgc aattgacaag agcatggaag aaagaatcag agcagcatct 240
cgagaggaaa cgttctcgct acgtct 266

<210> 876
<211> 343
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 876

ggctgggttct aggacaaatg cttttaagtg atataggagt agatttgacc cagtggaaaag 60
agaagctaca aactgaagca gaacctgccca atcttgataa gtttgttcat catttgctctg 120
agaatcactt tttccctaac agagttttgg tagattgcac agcagataca agtgttgcat 180
ctcactatta tgattggcta aagaaaggat ccatgtcatc actccaaaca agaagcaant 240
cagggccatt gacaggttct taancttgac tcttcagggg cataattatc atacttctan 300
gagnantgtg gnnngcccca nanatnnccn ngggtnnnan nag 343

<210> 877
<211> 442
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 877

gngatctngn gnantancta ncttgngnan ntgngnggtn cacttnacnn cnannnnncat 60
tggcnanncn ttgagattaa ganataactn tgtaggnaa gatgctgatg gtgntggaac 120
atgtgaccga gatatacatc cttaaagctga acctgancca tacttgacat ctngatgaat 180
cagctgaacn ngcctatttt ggagcgcagg aattgcatgc actatnnatg cggtcagngt 240
tgagaaggcg atntacctgt gagggctaata gaattnttat aactcgncta gnctanggta 300
cccttatcac taaaacntgn acgatatgag ttaagantgt tcagactngc attgtncctg 360
aaaatgaata ttnaatgctt gatatatcca gtacagggta tgctttgccca agtaccggat 420
naataanncc cntttaaggg aa 442

<210> 878
<211> 285
<212> DNA

<213> Zea mays
 <223> unsure at all n locations
 <400> 878

gnncaagacn tgtgccatac ttgacatttg atgaggcagc tgaacttgcc tatnttggag 60
 cgcagggtttt gcatccacaa tcaatgcggc cagctagaga aggcgatgta cctgtgaggg 120
 ttaagaattc ttataaccgt cgancccttg gtacccttat cactaaagca agagatatga 180
 gtaagactgt tttgactagc attgttttga aatcaaatat tacaatgctt gatatagtca 240
 gcacacgcat gcttggccag tacggttttc tagctaaggt ttttt 285

<210> 879
 <211> 282
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 879

gncaaaacct gtgccatact tgacatttga tgaggcagct gaacttggcc tatnttggag 60
 cgcagggtttt gcatccacaa tcaatgcggc cagctagaga aggcgatgta cctgtgaggg 120
 ttaagaattc ttataaccgt cgagcccttg gtacccttat cactaaagca agagatatga 180
 gtaagactgt tttgactagc attgttttga aatcaaatat tacaagcttg atatagtcag 240
 cacacgcatg cttggccagt acggttttct agctaagggt tt 282

<210> 880
 <211> 317
 <212> DNA
 <213> Zea mays

<400> 880

gaaccagctg atattgatag ttttgttcat catatatccg ataatcacgt atttccaaac 60
 aaagtttttg tggactgcac agcagataca agtgttgcat cccactatta taattgggta 120
 aagaagggtta ttcatgtcat cacaccaa at aagaaagcaa attctgggcc acttgatcag 180
 tacctgaaat tgcggactct gcaacgtgcc tcgtacactc attactttta tgaagcaact 240
 gttggtgctg gcctcccaat cattagtacc ttgcgaggtc ttctggagac gggtgacaag 300
 atactgcgta ttgaggg 317

<210> 881
 <211> 315
 <212> DNA
 <213> Zea mays

<400> 881

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ggatcagggtt gctgctctca aggaaaatat gaacattgat ctgcgtgtca ttggaataac 60
tggctcaagt acaatgcttt tgagcagaca cggaataga ctttaaccag tggaaacaac 120
ttctaaaaaa ggaagcagaa ccagctgata ttgatagttt tgttcatcat ttatccgata 180
atcacgtatt tccaaacaaa gttttggtgg actgcacagc agatacaagt gttgcatccc 240
actattataa ttggttaaag aagggtattc atgtcatcac accaaataag aaagcaaatt 300
ctgggccact tgatc 315
```

<210> 882
 <211> 288
 <212> DNA
 <213> Zea mays

<400> 882

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aaccagctga tattgatagt tttgttcac atttatccga taatcacgta tttccaaaca 60
aagttttggt ggactgcaca gcagatacaa gtgttgcac cactattat aattgggttaa 120
agaagggat tcatgtcac acaccaaata agaaagcaaa ttctggggcca cttgatcagt 180
acctgaaatt gcggactctg caacgtgcct cgtacactca ttacttttat gaagcaactg 240
ttggtgctgg cctcccaatc atagtacctt gcgaggtctt ctggagac 288
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<210> 883
 <211> 292
 <212> DNA
 <213> Zea mays

<400> 883

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ccaaaacgac acttgcaagt ggcattctg gacctggtt aattggtaga aactcctta 60
accagctcaa ggatcagggtt gctgctctca aggaaaatat gaacattgat ctgcgtgtca 120
ttggaataac tggctcaagt acaatgcttt tgagcgacac gggaatagac ttaaccag 180
ggaaacaact tctaaaaaag gaagcagaac cagctgatat tgatagtttt gttcatcatt 240
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atccgataat cacgtatttc caaacaaagt tttggtggac tgcacagcag at 292

<210> 884
 <211> 285
 <212> DNA
 <213> Zea mays

<400> 884

cactgggtta agtctattcc cgtggaaaca acttctaaaa aaggaagcag aaccagctga 60
 tattgatagt tttgttcac ctttatccg ataatcacgt atttccaaac aaagttttgg 120
 tggactgcac agcagataca agtgttgcat ccactatta taattgggta aagaagggtta 180
 ttcattgtcat cacaccaa at aagaaagcaa attctgggcc acttgatcag tacctgaaat 240
 tgcggactct gcaacgtgcc tcgtacactc attactttta tgagg 285

<210> 885
 <211> 263
 <212> DNA
 <213> Zea mays

<400> 885

cactgggtta agtctattcc cgtggaaaca acttctaaaa aaggaagcag aaccagctga 60
 tattgatagt tttgttcac atttatccga taatcacgta tttccaaaca aagtttttgg 120
 ggactgcaca gcagatacaa gtgttgcatc ccactattat aattgggtta agaagggtat 180
 tcatgtcatc acaccaaata agaaagcaaa ttctgggcca cttgatcagt acctgaaatt 240
 gcggactctg caacgtgcct cgt 263

<210> 886
 <211> 279
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 886

atttaataat ttcgaaggaa caaggggcatt cagtgatgtc gttgctgaag caaaagaggc 60
 gggatacacn gaacctgacc caagagatga tctatctgga actgatgttg cccganagg 120
 cattatcctt gcaagggaat cagggttgag gcttgaactt tctgatattc ctgtgaagag 180
 ccttggtcca gaaacacttg cagcatgtc gtcagcagat gaattcatgc agaagctacc 240

atcctttgac gaggactggg ccaggcaacg catgatgct 279

<210> 887

<211> 256

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 887

tttantnntt tcgaaggaac aagggcattc agtgntgtcg ttgcngaagc aaaaganntg 60

ggatacactg aacctgaccc aaganntgat ctntctggaa ntgntgttgc ccgaaaggtc 120

attntccttg caagggaaac aggnttgagg cttgaacttt ctggntattc ctgtgaagag 180

ccttgngctn gaaacacttg cagcagctcg tcagcagaga gttcagcaga agctaccatc 240

ctttgacgag gactgg 256

<210> 888

<211> 322

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 888

gggagactgg atggatgacc ctgctattcc tatagtcact ggttttcntg gncagggatg 60

taaatcatgt gctgtcacca ctttaggcag gggtggtagt gacttgacag ctacaacccat 120

tggcaaagcc ttgggattaa gagaaatcca ggtttggaag gatgtagatg gtgtgttgac 180

atgtgatcct aatatatatg caaatgctat acccgtgcc tacttgactt ttgatgaggc 240

tgctgagctt gcctactttg gtgcacaggt tttgcatccc caatcaatgc gaccggctag 300

ggatgggtgat attccagtga ga 322

<210> 889

<211> 105

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 889

gtgatcctaa tatatatgca aatgctatac ccgtgcccta cttgactttt gatgaggctg 60

ctgagcttgc ctacttttgt gcacagggtta nacatcccc agtca 105

<210> 890

<211> 279

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 890

gtgagtacaa cattactatt gtactgaagc aagaagactg cgtgcgggct ctgagagctg 60

cccactcaag gntcttcctc tccaaaacca cactggctgn tggcatcatt ggacctgggn 120

tgattggtcg cacattactt aatcagctga aggatcaggc tgctgtcctc aaggaaaata 180

tgaacattga tttgcgtgtc atgggaatag ctggttctag gacaatgctt ttaagtata 240

taggagtaga tttgaccagc tggaaagaga agctacnaa 279

<210> 891

<211> 282

<212> DNA

<213> Zea mays

<400> 891

gctatgcaaa tattaatgta agggcgatag ctcaagggtg cagtgagtag aacattacta 60

ttgtactgaa gcaagaagac tgcgtgcggg ctctgagagc tgcccactca aggttcttcc 120

tctccaaaac cacactggct gttggcatca ttggacctgg gttgattggt cgcacactac 180

ttaatcagct gaaggatcag gctgctgtcc tcaaggaaaa tatgaacatt gtttgcgtgt 240

catgggaata gctggttcta ggacaatgct ttaagtgt at 282

<210> 892

<211> 282

<212> DNA

<213> Zea mays

<400> 892

gttatccatg tttctgaaat cgaagagtgg aatatggtca aaagcctaca tatcaagacg 60

gtggatgaac ttggacttcc aagatctgta atacaagaca tgctagatga actggagcaa 120

ctattgaaag gtatcgctat gatgaaagag ctgacgccta ggaccagtga ctaccttgtt 180

tcatttgag aatgcatgtc caccaggatt ttttctgctt atttgaacaa aattcgtgtc 240

aaggcacggc agtatgacgc atttgatatt ggtttcatcac aa 282

<210> 893

<211> 270

<212> DNA

<213> Zea mays

<400> 893

gttatccatg tttctgaaat cgaagagtgg aatatgggtca aaagcctaca tatcaagacg 60

gtggatgaac ttggacttcc aagatctgta atacaagaca tgctagatga actggagcaa 120

ctattgaaag gtatcgctat gatgaaagag ctgacgccta ggaccagtga ctaccttggt 180

tcatttggag aatgcatgtc caccaggatt tttctgctta tttgaacaaa attcgtgtca 240

aggcacggca gtatgacgca tttgatattg 270

<210> 894

<211> 493

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 894

gngnnnnnng gnaantgttn anttngcccg ccagtaccga tccaagaatt cccgggtcga 60

cccacgcgtc cgatcagctt gggctagata gatcaattgt ttgtggtttg ttggatgaac 120

ttgaacaact tcttaaggga attgctatga tgaaagagct gactcttagg acacgagatt 180

atctagtttc atttggtgaa tgcatgtcta caagaatatt tgctgcactt ttaaacaaaa 240

ttggagtaaa agctcggcag tatgatgcat ttgatcttgg ctttataact accgatgatt 300

tcacaaatgc ggatattctg gaagcaactt atcctgctgt tgcaaggagg ctacatgtgg 360

aatggattaa tgatcctgct atacctatag tcaactggctt tcttggcaag ggatggagat 420

ctgggtgcaat aactaccttg ggcanggggtg gtaatgaact gacagctaca accattggca 480

aagccttggg aat 493

<210> 895

<211> 281

<212> DNA

<213> Zea mays

<223> unsure at all n locations
 <400> 895

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aaaganctgn ctcttaggac acgagattat ctagttgcag tnggtgaatg catggctaca   60
agaanattgg cctgcacttt naaacaaaat tggagtaaaa gtctcggcag tatgatgcat  120
gtnatcttgg cttgataact accgatgatt tcacaaatgc ggntattctg gaagcaactt  180
atcctgctgt tgcaaggagg cgacatgtgg aatggattaa tgatcctgcn agacctatag  240
tcantggcnt tcttggcaag ggatggagat ctggtgcaat a                        281
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<210> 896
 <211> 299
 <212> DNA
 <213> Zea mays

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<400>        896
gcgcggggcg ggaggtgact gcgggtggcg tcttctgcga catcctgcgg ctggcgtctt   60
accttggcgc tccttcttag agcttccact tacagttgtc aatttgaaga ggcagatgga  120
cagtgccctg catgatgcct ccgtgttttag gcttattatg gacttgctca aagttgttct  180
gaataagtgc caggaaataa ggcctctatc ttatttaggc ctctatcttc ggggtagctg  240
actaagtgtt gttatgctac ggaatccaga atctgtgaat tgaaatgaat gtaccgatg   299
```

<210> 897
 <211> 454
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 897

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actttacttg gccngccagg tcaagatncc cgggtcgacc cacgntcca ccgcttcngc   60
cctcncgctt tcgttgtcat gaggagctc accgtggcaa gccgccaccc gggcgccgct  120
ttctctaccc gccgccgcc ccttcttcac cccgccgcag ccggaaggga ctcgaccttc  180
cagcggtgct ggcgatggga aaaaactcag gacagctcct tcgggagctc actaaggacc  240
agccgccttc caagaactgt gcacggagat attttgaaga atttgctcgc accaactgct  300
ggtgctgttt cagttgagca agctgaagct attgctgacc tcccaaaagg tgaaatgtgg  360
tcggtgcaca agtttggtag cacatgcatg gggacctctg agagaattca caatgttgct  420
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gataaaaancc ctnnnggattc cttcgaanaa ggaa

454

<210> 898

<211> 310

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 898

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cgctttctct acccgccgcc gcccccttct tcaccccgcc gcagccggaa aggactcgac 120

cttcacgcgg tgctggcgat gggaaaaaac tcaggacagc tccttcggga antcactaag 180

gaccanccgc cttccaagaa ntgtgnacgg agatattttg aagnatttgc tcgcaccaac 240

tgctggtgct gtttcagttg agcaagctga agctattgct gacctccaa aaggtgacat 300

gtggtcggtg 310

<210> 899

<211> 276

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 899

tatgatgtga caggnacttg atcatgtcgt tgaagagctt aaaaaatttg cagttgttca 60

tctgtgcaa cgtagatcga tcattctact gatagggaat gtacagcgat cgtcattgat 120

tcttgaaaag gcattcaacg ttctgcgaag aaatggtgtt aatgtccaga tgatctcaca 180

aggggcgtcc aaggtgaaca tatccttggg agtcaatgac agtgaggcaa aacagtgcgt 240

acaagccctc cattcagcgt tctttgagaa tggatc 276

<210> 900

<211> 240

<212> DNA

<213> Zea mays

<400> 900

tgaattgatc cagcaggaac ttgatcatgt cgttgaagag cttaaaaaat ttgcagttgt 60

tcattctgctg caacgtagat cgatcatctc actgataggg aatgtacagc gatcgtcatt 120

gattcttgaa aaggcattca acgttctgcg aagaaatggt gttaatgtcc agatgatctc 180

acaaggggcg tccaaggtga acatatacctt ggtagtcaat gacagtgagg caaaacagtg 240

<210> 901
<211> 279
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 901

ggagcgtcac ccggaagtat gggcccgcg cgcgcgccag cggcgccgta gttgtcgaca 60

acagctccgc gttccggatg gngcccgang tgccgctcgt catccccgag gtcaaccccg 120

aggccatggc gaacgtccgc ctcgggcagg gggcgattgt ggcaaataccg aattgctcga 180

ccatcatctg cntcatggct gccacgccgc tccatcgcca cgctaagggtg ttaaggatgg 240

ttgtcagcac ataccaagca gcaatggtgc ggggtgctgc 279

<210> 902
<211> 254
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 902

cagtgggtag gattcgtcag gacttgtccc tggatgataa ccgaggggtg gacatatattg 60

tgtgtggtga tcagatacgt aaaggtgccg cactcaatgc cgttcagatt gctgaaatgc 120

tgctgaagtg aatgcgactt aaccctcttg tccctccctc cctccctgtc cctaattgct 180

ctgatcaaat gctggactgt actctgatta gtttgtcctc natTTTTggtc gcctgttctg 240

tattctgcgg tgct 254

<210> 903
<211> 496
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 903

ggtnnnnnaa ctccccgc nccggtacgg tncaaaattc ccggnncgac ccacgcgtca 60

caagatggtg tgtacacgga ttggatagat cgtccacaac ctcgattgga ccgtcataag 120

gaaatgggtt tacagtgacg ctgggaagag tgaggggaatg ttccgtgatg gacataagtt 180
 ggtattgttt ggacataaca cagtggtagg agctgcgggt ggttcgatta ttantgaaag 240
 ttgagtgtcg ccaaaggggtt tattgcacaa aaaggaaaac aaagtgtata tgcggagtat 300
 ctcgtcacta gtgtgtgtca ctagacagaa tagtgtgttt gtgttggttg tgtcgtgttt 360
 tccaatgaan gacattgacc actagaacta tgtgaaaaaa aaaannagtc aacacaaaga 420
 ntannaaaaa aggnccggccg ctctagagga tncaagctta cgtacccgtc atnacgtcan 480
 aacccttcna aaatgt 496

<210> 904
 <211> 435
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 904

gtaactgcga cttgcatacg ggttcctgtg atgcgcgcac atgctgaaag tgtnaagnta 60
 cagtttgaaa agccacttga tgagcgcgta tgctcctcaa gtaggcctta atgagaactc 120
 aaagagagag ttctgggaag gcctggagga catggtagt agtgtgccag ttggcgagaa 180
 gctcttcata ggaggagatc tcaatggcca tgatactgca agagaaattt tgagagcagc 240
 tcctgggtgtt accattattg atgaccgagc ttccaatcgc ttccctacac ctctggaggt 300
 atcagacaaa gatgacgtan cantgggtag gattcgtcag gacttgctct ggatggtaac 360
 cganggtttg gacatatttg tgtgttggtg atcagatacg taaangcgcc ggactnaatg 420
 ccgtcaaaat tggtt 435

<210> 905
 <211> 287
 <212> DNA
 <213> Zea mays

<400> 905

atcaccagag tgaattagca gaagaattgg ctgaaaggaa gcatctcttc tgtgcacgcc 60
 caciaacatt gggagagacc atccgggcaa tggacctaga gacactgggt cctatgagcc 120
 aggggatgcc aaaccagtcg tcaccctgat caacagattt cttggcttcc agttgattga 180

cgaatctatt cggttggtct caatccatgt ggattagatg gtattgcgtc ggtttaattc 240
catagcaagt caaaatacat cctaaaccca ctcaatccac tccaatc 287

<210> 906
<211> 307
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 906

ccgcgaccga tcgagcgaan ancccttccc gcgccgacgc cgaaacccta gtcctcttta 60
cgccatggcc accgtgtcgc tcaactccgca ggcggtcttc tccaccgagt ccggcgggcgc 120
cctgggcttc tgccaccatc ctccgcttcc cgccaaactt cgtacgccag ctcagcacca 180
aggcacgacg caactgcagc aacatcggcg tcgcgcagat cgtcgccgcc gcgtgggtccg 240
actgcctcgc tgctcgccgc ctccgcggcg gcggatgtca gcgcaattcc taacgctaag 300
gttgcgg 307

<210> 907
<211> 265
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 907

aaagtacatt gctggacaca acgatgttat tggaggatgc gtcagtggca gagtgantgg 60
tttccaaagt cntatattat caccatgtgg ttggtggtgt ctaaccccga atgctncgta 120
ctancctncn ncngaaacct ncatctccgt gtgcatgctg aataaacntg cttncggatg 180
gccanttttt agaggaacat ctaaagatgc cngngtacta tcctggctgc tagccaaccc 240
tgaacatcca ttgcccagag ncaat 265

<210> 908
<211> 267
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 908

attttcagta aatttggtat cgaacacaca ctgaacatcc ctgcaacttt tgttggttaag 60

angttgtttg tttaggacta taatctgtct agattatata atccaacaaa taatgtgtta 120
 tttgctggat tatataatct ggacagatta tattctcaaa caaacacccg ctaattcttc 180
 caggggacaa tcggagcgtg gaaacgatgc caaccaggac atactttaca accagaacgt 240
 ccaaagtgtg gtgccgtacc attcgag 267

<210> 909
 <211> 96
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 909

tacaaatcca tttctcagat gcattgatat tgaacatgta tccaaatatg tgccataggc 60
 aaggganngt ngccttngaa tngccngnan ttcneg 96

<210> 910
 <211> 352
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 910

accaaatacat gcatggtact gaaatgagat gcaattccaa ttctattgtt tggatgtcac 60
 tgaattgtac gttctaattc cacgcaatac cgaggnnctg angctttgta ttgggagagg 120
 atgttctagt tatagtctaa ttctagggaa ttaggcctct gatnccaaat ctcaattcca 180
 cgagcaanca aacaacagaa tttagaaaaa ctgattctaa ttcccaattc tgtgctccaa 240
 tatctatatc caaccggggg gttagtatta tgtagtttca ctggctcttc tagttgtgct 300
 ttatganatc tttngnacct gaagataaat ttgagtttcc aggaaggnac tt 352

<210> 911
 <211> 503
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 911

gnnnnnnnnn ggnngaangt ccagccggnc ntaccgggcc canaaattcc cggntcnacc 60

acgcgtccgg agatcttcat caggggaaat tgcgatggta tgggagacta cggcccgtta 120
cctttgaacc ctctagtaga gtcttgagaa cccttgcatg cattcgctgt tgtatgctgc 180
catgctgttg aatttagctg tactacacca gatagtata cccgaactca cggagttaat 240
ggaaccggat agaaagctgc ccatgtagtt tgggtgttgt tgcttacgtt gtggatttac 300
tgtagtgact tgtctaagtc tccgtttctc cggttggtta tcgaccatat tggaggcatg 360
gaattaaaat aagttcaata ccaaatcaaa tatagtattg aaatgagatg taattcaatt 420
ctattgtttg gatgtcgtg atttggaatt aaaaaanaan nannnaannn nnnnnnnnnn 480
nnnnnnnnnn nnnnnnnnnn nna 503

<210> 912
<211> 497
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 912

ggtttttaan gggggggagg aagggaaagc tttcccggtc cggattcccg ggtcgaccca 60
cgcgtcccga gttaaaacat ctttttgng gtgggnaaat atggaaccta tttcangtta 120
nttggcctng nttggatttg ancccgtgng gtggagtaat ctaatactcc gcttgggatg 180
tcgatattgg agaggatgga attgaattgg ggttgaatac caaatcaggc atgatattga 240
aatgagatat aatttcaatt ctattgtttg gatgtcactg aattggagtt tggaattatg 300
cggctcaatt ctaggcaata ccgagggggg gaggctttgt attggaagag ggggtttcta 360
gttatagtct aatttcaggg aattgggcct ctgattccaa atctcaattc cacatgcaac 420
gaatcaacat aatttangaa agctgattcc aattctcaat tctgtgattc aatctctaca 480
tccaaacggg gtataag 497

<210> 913
<211> 548
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 913

gnnnngcgca gagtttgtn gggngnnggg gggaaggang natntgctnn tccgggtccgg 60

aattcccggg tcgacccacg cgtccgcgcg agcggccccc tttttttttt tttttttttt 120
ttttttttta ctaaaaccta tngnctgang ntcaggctaa tgacattttg tctttacaat 180
actgtgatgc aataaaactg ggcaaaccat tgataccacc gtatacagta actcaatacc 240
atccaattct atgaggatta aaaatgtatt ggaatggatt ggtatgtatt ttgacttgct 300
ataaatTTaa accaactnaa taccatccaa ttcacttaga ttaacgggtga aacgaacaag 360
gcctaagggg agtggttaaca gtctaacatc attgtacaac agcctttccg aagcccatag 420
acattgtgag acaagatccg taaaccatga atcgttcttc acttaggatg accatnttag 480
ctggtcacga aatgggtaccg ggaatcacia atntttnaac gtcccaaang aacgatcctg 540
gangctgt 548

<210> 914

<211> 463

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 914

cataaataag tcgtgttttg aagggttctn ntgaataaga taaaggctta gatacattna 60
gntgtatgaa cgggttnttt ttaggtgtat ctagtgtttg gagaaccgca acatgatgtc 120
tatgttgtac atgacctaag tgcatttctc taccaccagc actcttgccc aagcatggta 180
gaccatttgt gtttaatgtt cattacatgc taataaaaga tactgggtggg aagggttaagg 240
ttatgtttta ggcacaccaa acaagaagga gtctaangaa attaagnnac caaggctctc 300
agtngagtaa gggggtagtc tttccattaa aattgactgg ctaaaattta agctcgggct 360
cttatgngng ttngngnaac ctatgagaac cgacngnaag gnanttgggn aatcagtnag 420
tanttgaac naaacggtnt ggtaaagtga accctttttc cgt 463

<210> 915

<211> 267

<212> DNA

<213> Zea mays

<400> 915

agctgaagga tttcttcaag cagtaggtgt gaagacctga agatcagctt tatctctctt 60
ttgttctgc tagggccttc tcggttattc caattccatg tggattgaag tgtattaaaa 120

tggattttga cttgttatgg atttaaataca acttaatacc actcaatcca catggattat 180
 tggtgaaaca aacaagccct agtcgaaatt cttgttaagt tggtagtttg tcagacccga 240
 aatagagttt tttgggtttc gaatgga 267

<210> 916
 <211> 284
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 916

attttgaggc atggcagaca actgagggtcg aaatagcgtg gtagcttgga tctgcacatc 60
 tatatgattg agggcctggt gtttaggatt ataatctgcc cagattatat aacctatctt 120
 attttgaact aagtgttagt tcaaaataag ttagattata taatatggac aaattatatt 180
 cccaatcaaa caggctatga ttggacttac tgatacccat tgagtagaac tggatcttgg 240
 acagtntncg gggaaaacgg atggacctta attgaaaatt tgcg 284

<210> 917
 <211> 247
 <212> DNA
 <213> Zea mays

<400> 917

ctgagggtcga aatagcgtgg tagcttggat ctgcacatct atatgattga gggcctggtg 60
 tttaggatta taacctgccc agattatata acctatctta tttgaactaa gtgttagttc 120
 aaaataagtt agattatata atctggacaa attatatcc caatcaaaca ggctatgatt 180
 ggacttactg ataccattt gagtagaact gatcttgaca ggtatccgag aaaacgatga 240
 ccttaat 247

<210> 918
 <211> 254
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 918

caactggagg tcgaaatagc gtggtagctt ggatctgcac atctatatga ttganggcct 60

ggtgttttagg attataatct gccagatta tataacctat cttattttga actaagtgtt 120
 agttcanaat aagtttagatt atataatatg gacaaattat attcccaatc aaacaggcta 180
 tgattggact tactgatacc catttgagta gaactgatct tgacaggtat ccgagaaaac 240
 gntgacctta attg 254

<210> 919
 <211> 508
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 919

agangtttttn nggntggggn ggnnganaag tttaccggtc cggattcccg ggtcgaccca 60
 cgcgtccgct gggaagaagg atagccacgg atgctatcac caccgcggta gtgaacacgt 120
 cggcctactg gttcaacaac tcgcaagagc taatcgactt taaggagggg aggcattgcta 180
 gcttcgagta tgggaggtat gggaacccga ccacggaggc attagagaag aagatgagcg 240
 cactggagaa agcagagtcc accgtgtttg tggcgtcagg gatgtatgca gctgtggcta 300
 tgctcagcgc acttgtccct gctggtgggc acattgtgac caccacggat tgctaccgca 360
 agacaaggat ttacatggaa aatgagctcc ctaagagggg aatttcgatg actgtcatta 420
 ggctgtgta catggatgct ctccaaaatg cgttggacaa caataatgta tctcttttct 480
 tcacggagac tnctacaaat ccatttct 508

<210> 920
 <211> 316
 <212> DNA
 <213> Zea mays

<400> 920

ggagactccc acaaatccat ttctcagatg cattgatatt gaacatgtat caaatatgtg 60
 ccatagcaag ggagcgttgc tttgtatcga cagtactttt gcctccccta tcaatcagaa 120
 ggactgact ttaggcgctg acctagtat tcattctgca acaaagtaca ttgctggaca 180
 caacgatgtt attggaggat gcgtcagtgg cagagatgag ttggtttcca aagtccgtat 240
 ttatcaccat gtggttggtg gtgttctaaa cccgaataac actgctcttc ggatggccca 300

gttttttagag gaacat

316

<210> 921
<211> 300
<212> DNA
<213> Zea mays

<400> 921

ttcgatgact gtcattaggc ctgctgacat ggatgctcta caaaatgcgt tggacaacaa 60
taatgtatct cttttcttca cggagactcc cacaaatcca tttctcagat gcattgatat 120
tgaacatgta tcaaatatgt gccatagcaa gggagcgttg ctttgtatcg acagtacttt 180
tgcctcccct atcaatcaga aggcactgac tttaggcgct gacctagtta ttcattctgc 240
aacaaagtac attgctggac acaacgatgt tattggagga tgcgtcagtg gcagagatga 300

<210> 922
<211> 271
<212> DNA
<213> Zea mays

<400> 922

cttgttccgg ctgggtgggca cattgtgacc accacggatt gctaccggaa aacaaggatt 60
tacatggaaa ctgagctccc caagagggga atttcgatga ctgtcattag gcctgctgac 120
atggatgctc tacaaaatgc gttggacaac aataatgtat ctcttttctt cacggagact 180
cccacaaatc catctctcag atgcattgat attgaacatg tatcaaatat gtgccatagc 240
aaggggagcgt tgctttgtat cgacagtact t 271

<210> 923
<211> 266
<212> DNA
<213> Zea mays

<400> 923

cacaaatcca tttctcagat gcattgatat tgaacatgta tcaaatatgt gccatagcaa 60
gggagcgttg ctttgtatcg acagtacttt tgcctcccct atcaatcaga aggcactgac 120
tttaggcgct gacctagtta ttcattctgc aacaaagtac attgctggac acaacgatgt 180
tattggagga tgcgtcagtg gcagagatga gttggtttcc aaagtccgta tttatcacca 240

tgtggttggt ggtgttctaa acccga 266

<210> 924
 <211> 263
 <212> DNA
 <213> Zea mays

<400> 924

tgctcagtc acttggtccg gctggtgggc acattgtgac cacacggatt gctaccggaa 60
 aacaaggatt tacatggaaa ctgagctccc caagagggga atttcgatga ctgtcattag 120
 gcctgctgac atggatgctc tacaaaatgc gttggacaac aataatgtat ctcttttctt 180
 cacggagact cccacaaatc catttctcag atgcattgat attgaacatg tatcaaatat 240
 gtgccatagc aaggggagcgt tgc 263

<210> 925
 <211> 238
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 925

gcgtaacctg ctcggtccg acgccagcct cgccgtccac gcgggggaga ggctgggaag 60
 aaggatagcc acggatgcta tcaccacgcc ggtagtgaac acgtcggnet actggttcaa 120
 caactcgcaa gagctaatac actttaagga ggggagggcat gctagcttcg agtatgggag 180
 gtatgggaac ccgaccacgg aggcattaga gaagaagatg agcgacttg agaaagca 238

<210> 926
 <211> 332
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 926

gccgcaactg cagcaacatc ggcgtcgcgc agatcgtcgc cgccgcgtgg tccgactgcc 60
 ccgccgcctc cgcggcgcgg aggtcagcgc aattcccaac gctaaggttg cgcaaaccga 120
 ccgccgtcgt cttggccgag cgtaacctgc tcggctccga cgccagcctc gccgtccacg 180
 cggggganag gctgggaaga aggatcgcca cggtatgcgat caccacaccg gtagtgaaca 240

cgtcggccta ctggttcaac aactcgcaag agctaatacga ctttaaggag gggaggcatg 300
ctagcttcga gtatgggagg tatgggaacc cg 332

<210> 927
<211> 226
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 927

ctatgctcag tgcacttggt ccggctgggtg ggcacattgt gaccaccacg gattgctacc 60
ggaaaacaag gatttacatg gaaactgagc tccccaagag gggaatttcg atgactgtca 120
ttaggcctgc tgacatggat gctctacaaa atgcgttga caacaataat gtancccttt 180
tcttcacgga gactcccaca aatccatttc tcagatgcat tgatat 226

<210> 928
<211> 228
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 928

gatgactgtc attaggcctg ctgacatgga tgctctacaa aatgcgttgg acaacaataa 60
tgtatctctt ttcttcacgg agactcccac aaatccatttc ctcagatgca ttgatattga 120
acatgtatca aatatgtgcc atagcaaggg agcgttgctt tgtatcgaca gtacttttgc 180
ctcccctatc aatcagangg catgacttta ggcgctgacc tagttatt 228

<210> 929
<211> 501
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 929

gnnagnnaga ggttgatacg gaacgggggn ttaatggaat gtcgtaccg gtccggaatt 60
cccgggtcga cccacgcgtc cgggttattg gaggatgcgt cagtggcaga gatgagttag 120
tttccaaagt tcgnatttac caccatgtag ttggtggtgt tctaaaccg aatgctgcgt 180
accttatacct tcgaggtatg aagacactgc atctccgtgt gcaatgtcag aacgacactg 240

ctcttcggat ggcccagttt ttagaggagc atccaaagat tgctcgtgtc tactatcctg 300
gcttgccaag tcaccctgaa catcacattg ccaagagtca aatgactggc tttggcggtg 360
ttgttagttt tgaggttgct ggagactttg atgctacgag gaaattcatt gattctgtta 420
aaatacccta tcatgcgcct tcttttgaag ctgtgagagc ataattgatc agcctgccat 480
catgtcctac tgggattcaa a 501

<210> 930
<211> 489
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 930

aacgttacgc cggnccgtag ccgtccaaaa ttcangggtc gaccacgcg tccggacaac 60
ctgatcaggt tcagcattgg agtggaggat tttgaggacc ttaagaatga tcttggtcag 120
gccctcgaga agatataagc tccaatccat ttgcattaat aaagttatga ggtgatgggt 180
gtctggatct tgtagagatt tgtgatgata catgagctgt tgactgcgat taagttctct 240
tgtgcttatt ttattctttg aattcaataa gctgtgggtg ctgcatcttg catgtagtgt 300
tggaactaat ttactttgtc aaattacaat agtttggtcc catgtacttg tgtccgcgcc 360
tccgcgggtg tgccccaag tgtttttgtg tcatttgctg tgtaatgtga gattaagggc 420
acgatgtcct taatcaccat aataaatcca agccttaa at gtaaggattc tgggttggga 480
atgaanaac 489

<210> 931
<211> 340
<212> DNA
<213> Zea mays

<400> 931

tttaaaatac cctatcatgc gccttctttt ggaggctgtg agagcataat tgatcagcct 60
gccatcatgt cctactggga ttcaaaggag cagcgggaca tctacgggat caaggacaac 120
ctgatcaggt tcagcattgg tgtggaggat ttcgaggatc ttaagaacga tctcgtgcag 180
gccctcgaga agatctaagc actctaata gtttgtattg acaaaatcat gaggtgatgg 240

ctgtcttggg tcttgtcaag atctgtgaca atgatatgag ctgatgactg cgaataagtt 300
ctcttttggc tatttatccg tcaaatccat aagctgtgat 340

<210> 932
<211> 303
<212> DNA
<213> Zea mays

<400> 932
ctgcatctcc gtgtgcaatg tcagaacgac actgctcttc ggatggccca gtttttagag 60
gagcatccaa agattgctcg tgtctactat cctggcttgc caagtcaccc tgaacatcac 120
attgccaaga gtcaaatgac tggctttggc ggtgttggtta gttttgaggt tgctggagac 180
tttgatgcta cgaggaaatt cattgattct gttaaatac cctatcatgc gccttctttt 240
ggaggctgtg agagcataat tgatcagcct gccatcatgt cctactggga ttcaaaggag 300
cag 303

<210> 933
<211> 299
<212> DNA
<213> Zea mays

<400> 933
tttacattta aggcattgat ttattatggt gattaaggac atcgtgcctt aatctcacac 60
tacacagcaa atgacacaaa aacactaggg gcacaaccgc ggaggcgcgg acacaagtac 120
atgggaccaa actattgtaa ttgacaagt aaaattaagt ccaacactac atgcaagatg 180
cagcaaccac agcttattga attcaaagaa taaaataagc acaagagaac ttaatcgag 240
tcaacagctc atgtatcatc acaaatctct acaagatcca gacaaccatc acctcataa 299

<210> 934
<211> 345
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 934

gggaacatct aaagattgcc cgtgtctact atcctggcctt gcctagccac cctgaacatc 60
acattgcaa gagtcaaatg actggctttg gtgggtgtgt tagttttgag gttgctggag 120

actttgatgc cacaaggaaa ttcatcgatt ctgttaagat accctatcat gccccttctt 180
 tnggaggctg tgagagcata attgatcagc ctgctatcat gtcctactgg gattcaaagg 240
 agcagaggga catctatggg atcaaggaca acctgatcag gttcagcatt ggagtggagg 300
 ttttgaggac cttaagaatg atcttggtca ggccctcgag aagat 345

<210> 935

<211> 274

<212> DNA

<213> Zea mays

<400> 935

agtcaaatga ctggcttttg cggtgttggt agttttgagg ttgctggaga ctttgatgct 60
 acgaggaaat tcattgattc tgtaaaaata ccctatcatg cgccttcttt tggaggctgt 120
 gagagcataa ttgatcagcc tgccatcatg tcctactggg attcaaagga gcagcgggac 180
 atctacggga tcaaggacaa cctgatcagg ttcagcattg gtgtggagga tttcgaggat 240
 cttaagaacg atctcgtgca ggccctcgag aaga 274

<210> 936

<211> 306

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 936

gttggtttcc aaagtccgta tttatcacca tgtggttggt ggtgttctaa acccgaatgc 60
 tgcgtacctt atccttcgag gcatgaaaac acttcattc cgtgtgcaat gtcagaataa 120
 nactgctctt cggatggccc agtttttaga ggaacatcta aagattgccc gtgtctacta 180
 tcctggcttg cctagccacc ctgaacatca cattgccaag agtcaaatga ctggcttttg 240
 tgggtgtggtt agttttnagg ttgctggaga ctttgatgcc acaaggaaat tcatcgattc 300
 tgttaa 306

<210> 937

<211> 265

<212> DNA

<213> Zea mays

<400> 937

ccaccatgta gttggtggtg ttctaaaccc gaatgctgcg taccttatcc ttcgaggat 60

gaagacactg catctccgtg tgcaatgtca gaacgacact gctcttcgga tggcccagtt 120

tttagaggag catccaaaga ttgctcgtgt ctactatcct ggcttgccaa gtcaccctga 180

acatcacatt gccaaagagtc aaatgactgg ctttggcggg gttgttagtt ttgaggttgc 240

tggagacttt gatgctacga ggaaa 265

<210> 938

<211> 322

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 938

ctattggtgg tgtggttagt tttgaggttg ctggagactt tgatgccaca aggaaattca 60

tcgattctgt taagatacnc tatcatgccc cttctttcgg aggctgtgag agcataattg 120

atcagcctgc tatcatgtcc tactgggatt caaaggagca gagggacatc tatgggatca 180

aggacaacct gatcagggttc agcattggag tggaggattt tgaggacctt aagaatgatc 240

ttgttcaggc cctcgagaag atataagctc caatccattt gcattaataa agttatgagg 300

tgatggttgt ctggatcttg ta 322

<210> 939

<211> 283

<212> DNA

<213> Zea mays

<400> 939

cattgccaag agtcaaata ctggccttgg cgggtgttgtt agttttgagg ttgctggaga 60

ctttgatgct tacgagggaa attcattgat tctgttaaaa taccctatca tgcgccttct 120

tttgagggct gtgagagcat aattgatcag cctgccatca tgtcctactg ggattcaaag 180

gagcagcggg acatctacgg gatcaaggac aacctgatca ggttcagcat ggtgtggagg 240

attcagggat cttaagaacg atctcgtgca ggccctcgag aag 283

<210> 940

<211> 282

<212> DNA
 <213> Zea mays
 <400> 940
 ctttagatgt tcctctaaag attgcccggtg tctactatcc tggcttgcct agccaccctg 60
 aacatcacat tgccaagagt caaatgactg gctttggtgg tgtgggttagt tttgagggtg 120
 ctggagactt tgatgccaca aggaaattca tcgattctgt taagataccc tatcatgccc 180
 cttcttttcgg aggctgtgag agcataattg atcagcctgc tatcatgtcc tactgggatt 240
 caaaggagca gagggacatc tatgggatca aggacaacct ga 282

<210> 941
 <211> 315
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 941

gggattcaaa ggagcagagg gacatctatg ggatcaagga caacctgac aggttcagca 60
 ttggagtgga ggattttgag gaccttaaga atgatcttgt tcangccctc gagaagatat 120
 aagctccaat ccatttgcac taataaagtt atgangtgat ggttgtctgg atctttaga 180
 gatttgtgat gatacatnag ctntttactg ngaataagtt ctcttngct taatttantc 240
 tttgnattca ataantctgn ggttgcttgg aaaaaaaaaa aanntnnnn nnnnnntnnn 300
 tttttnnnnt nnnnt 315

<210> 942
 <211> 261
 <212> DNA
 <213> Zea mays

<400> 942
 atttatcacc atgtggttgg tgggtttcta aaccggaatg ctgcgtacct tatccttcga 60
 ggcatgaaaa cacttcatct ccgtgtgcaa tgtcagaata aactgctct tcggatggcc 120
 cagtttttag aggaacatct aaagattgcc cgtgtctact atcctggctt gcctagccac 180
 cctgaacatc acattgcaa gagtcaaagtg actggctttg gtggtgtggt tagttttgag 240
 gttgctggag actttgatgc c 261

<210> 943
 <211> 277
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 943

ttagggcgct gacctagtta ttcattctgc aacaaagtac attgctggnc acaacgatgt 60
 tattggagga tgcgtcagtg gcanagatga gttggnntcc naagncgtat ttatcaccat 120
 gtggttggtg gtgtcctaaa cccgaatgct gcgtacctta tccttcgagg catgaaaaca 180
 cttcatctcc gtgtgcaatg tnagaataac actgctcttc ggatggccca gtttttagag 240
 gaacatctaa agattgcccg tgtctactat cctggct 277

<210> 944
 <211> 250
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 944

tgcgtcagtg gcagagatga gttagtttcc aaagttcgta tttaccacca tgtagttggt 60
 ggtgttctaa acccgaatgc tgcgtacctt atccttcgag gtatgaagac actgcatctc 120
 cgtgtgcaat gtcagaacga cactgctctt cggatggccc nngttttaga ggagnatcca 180
 aagatttcgc gnggtcaagt atccgggctt gccaagtcac cctgaacatc acattgccaa 240
 gagtcaaattg 250

<210> 945
 <211> 303
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 945

aggaaatcat cgattctgtt aagaaaccct atcatgcccc ttctttcgga ggctgtgaga 60
 gcataattga cagcctgcta tcatgtctac tgggattcaa aggagcagag gggcatctat 120
 gggatcaagg acaaccttga caggtcagca ttggagtggg ggattttgag gaccttaaga 180
 atgatcttgn tcaggccctc gagaagatat aagctccaat ccatttgcat taataaaggt 240

atgaggtgat ggggtggctgg atcttgagag attgngatga tncatgagct gttgctgcna 300
tta 303

<210> 946
<211> 239
<212> DNA
<213> Zea mays

<400> 946

ctatcatgcc ccttctttcg gaggtgtga gagcataatt gatcagcctg ctatcatgtc 60
ctactgggat tcaaaggagc agagggacat ctatgggatc aaggacaacc tgatcagggtt 120
cagcattgga gtggaggatt ttgaggacct taagaatgat cttgttcagg ccctcgagaa 180
gatataagct ccaatccatt tgcattaata aagttatgag gtgatgggtg ctggatcctt 239

<210> 947
<211> 248
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 947

atztatcacc atgtggttgg tgggtgttcta aacccgaatg ctgcgtacct tatccttcga 60
ggcatgaaaa cacttcatct ccgtgtgcaa tgtcagaata aactgctct tcggatggcc 120
cagtttttag aggaacatct aaagattgcc cgtgtctact atccnggctt gcctagccac 180
ccngaacatc acattgccaa gagtcaaatg actggctttg gtggtgtggt tagttttgag 240
gttgctgg 248

<210> 948
<211> 223
<212> DNA
<213> Zea mays

<400> 948

gatcagcctg ctatcatgtc ctactgggat tcaaaggagc agagggacat ctatgggatc 60
aaggacaacc tgatcagggtt cagcattgga gtggaggatt ttgaggacct taagaatgat 120
cttgttcagg ccctcgagaa gatataagct ccaatccatt tgcattaata aagttatgag 180

gtgatggttg tctggatctt gtagagattt gtgatgatac atg 223

<210> 949

<211> 236

<212> DNA

<213> Zea mays

<400> 949

ggagactttg atgccacaag gaaattcatc gattctgtta agatacccta tcatgccct 60

tctttcggag gctgtgagag cataattgat cagcctgcta tcatgtccta ctgggattca 120

aaggagcaga gggacatcta tgggatcaag gacaacctga tcaggttcag cattggagtg 180

gaggattttg aggaccttaa gaatgatctt gttcaggccc tcgagaagat ataagc 236

<210> 950

<211> 181

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 950

gctctgtggc ttataaacag ggattcaaag gagcagaggg acatctatng gatcaaggac 60

aacctgatca ggttcagcat tggatggagg attttgagga ccttaagaat gatcttggtc 120

aggccctcga gaagatataa gctccaatcc atttgcatta ataaagtat gaggtgatgg 180

t 181

<210> 951

<211> 178

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 951

cacaacgatg ttattggagg atgcgtcagt ggcagagatg agttggtttc caaagtccgt 60

atztatcacc atgtggttgg tgggtgttcta aaccggaatg ctgcgtacct tatccttcga 120

ggcatgaaaa cacttcatct ccgtgtgcaa tgtcagaata aactgctct tcggangg 178

<210> 952

<211> 308

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 952

ancgaanacn gctccccgcg ccgcgcgcaa aaccctagct tctcctactc catggccact 60

gtctcgctca ccccgagggc tgtcttctcc acggagtcgc gtggcgccct ggcctctgct 120

accatcctcc gctttccgcc aaactttgtc cgccagctta gcaccaaggc acgccgcaac 180

tgcagcaaca tcggcgtcgc gcagatcgtc gccgcgcggt ggtccgactg cncgcngcc 240

tccgcggcgc ggaggtcagc gcaattccca acgctaagggt tgcgcaaccg tccgcngtcg 300

tcttggcc 308

<210> 953

<211> 269

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 953

gccacctccc cgaaagctgc cgcgaccgat cgagcggaagn ncggctcccc gcncccgcgc 60

ccaaaaccct agcttctcct actccatggc cactgtctcg ctcacccgcg aggtgtctt 120

ctccacggan tccggtggcg ccttggcctc tgctaccatc ctccgctttc cgccaaactt 180

tgtccgccag cttagcacca aggcacgcgc caactgcagc aacatcggcg tcgcgcagat 240

cgtcgcgcgc gcgtggtccg actgccccg 269

<210> 954

<211> 276

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 954

ctgcaaaatg ctgaagggtc gggctctggca ccttttgact gctggctttg cttgagggga 60

atcaaaacca tggctctgcg ggtggagaaa caacaggcta atgccagaa gattgctgaa 120

ttcctggcgt ctcacccgag ggtcaagcaa gtaaaactacg ctgggcttcc tgaccatcct 180

gggcgagctt tacactattc ccaggcnaag ggancgggct ctgttctcag ttttcccacc 240

ggntaaatgg ccntcnaaa gnagggtggg ggaacc 276

<210> 955
 <211> 440
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 955

cgagagtaga cgatcagaac caccatatat gtcctcacca gcaagttgtg ccaagaaatg 60
 gaatagttgt aaaacgagta gatacaacga aaattagtgat tgtggtgtct gcaattggac 120
 cctccactag actgggttgg ctcgaaagtc ccacgaaccc tcgtcagcaa attactgaca 180
 ttaagacaat ctgagagata gcgcattctc atggtgctct tgttttgggtt gacaacagca 240
 tcatgtctcc agtgctctcc cgctctatag aactgggagc tgatatcgtg atgcactcgg 300
 ctaccaaatt tataacggga catagtgatc ttaagggtcg ggaaatcttg cagtgaagag 360
 tganaatttg ggctaaaaga aggtaagggt ttctgcaaaa tgctgaaag ggncgggtcc 420
 gggnaccttt tgactggctg 440

<210> 956
 <211> 283
 <212> DNA
 <213> Zea mays

<400> 956

cgctgtggag accaccaagt acttcagcgt aacagtcagc ttcgggagcg tgaagtcctt 60
 catcagcctg ccgtgcttca tgtcccacgc atcaatccct gcctcgggtcc gcgaggagcg 120
 tggcctaacc gacgacctcg tccggatata ggtcggcatc gaggatgtcg aggacctcat 180
 cgccgatctg gaccgcgcgc tcagaactgg cccggtgtag acatcgccga tccttaggtc 240
 atgtcaagct atcttttgat gattcattgg ttgactgctt gcg 283

<210> 957
 <211> 340
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 957

caagtacttc agcgtaacag tcagcttcgg gagcgtgaag tccctcatca gcntgccgtg 60

cttcatgtcn cacgcatcaa tccctgcctc ggtccgcgan gagcgtggcc taaccgacga 120
 cctcgtccgg atacgggtcg gcatcgagga tgtcgaggac ctcatcgccg atctggaccg 180
 cgcgctcaga actggccccg tgtagacatc gccgacctt aggtcatgtc aagctatctt 240
 ttgatgattc attggttgac tgcttgctg atgataataa tgggaatgtt gcttggatac 300
 gccgctgcta naaaaaaact gngtcnagnn acngggnnnc 340

<210> 958
 <211> 257
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 958

gcattctcat ggtgctcttg ttttggttga caacagcatc atgtctccag tgctctcccg 60
 tcctatagaa ctgggagctg atacgtgat gcactcggct accaaattta tagcgggaca 120
 tagtgatctt atggctggaa ttcttgcaagt gaaggggtgag agtttggtta aagaggtagg 180
 gtttctgcaa aangctgaag ggtcgggtct ggcacctttt gactgctggc tttgcttgag 240
 gggaatcaaa accatgg 257

<210> 959
 <211> 521
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 959

ggnnnagggg ctnnngtntn tgacntntac ttnntggcat gccgtaccgg tccggaattc 60
 ccgggtcgac ccacgcgtcc ggggtgtctgc aattggaccc tccactagac tggtttggt 120
 cgaaagtccc acgaaccctc gtcagcaaat tactgacatt aagacaatct cagagatagc 180
 acattctcat ggtgctcttg ttttggttga caacagcatc atgtctccag tgctctcccg 240
 tcctatagaa ctgggagctg atacgtgat gcactcggct accaaattta tagcgggaca 300
 tagtgatctt atggctggaa ttcttgcaagt gaaggggtgaa aagtttggt aaagagggtan 360
 ggtttctgca aaatgctgaa ngggtcgggt ctggcacctt ttgactgntg gctttgcttg 420
 aagggaatca aaaccatggc tntgcnggtg gagaaacaac aggctaattgc ccagaagatt 480

gctgaatttc tggggtntta cccganggtc aaagcaagta a 521

<210> 960
 <211> 265
 <212> DNA
 <213> Zea mays

<400> 960

atcgtgatgc actcggctac caaatttata gcgggacata gtgatcttat ggctggaatt 60
 cttgcagtga agggtagagag ttgggctaaa gaggtagggt ttctgcaaaa tgctgaaggg 120
 tcgggtctgg caccttttga ctgctggctt tgcttgaggg gaatcaaaac catggctctg 180
 cgggtggaga aacaacaggc taatgcccag aagattgctg aattcctggc gtctcaccgc 240
 aggtcaagc aagtaaacta cgctg 265

<210> 961
 <211> 148
 <212> DNA
 <213> Zea mays

<400> 961

atatcgtgat gcactcggct accaaattta tagcgggaca tagtgatctt atggctggaa 60
 ttcttgcaat gaagggtagag agtttggtta aagaggtagg gtttctgcaa aatgctgaag 120
 ggtcgggtct ggcacctttt gactgctg 148

<210> 962
 <211> 453
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 962

ggctggggcg tcgctgacgg tgatcgacgg cgctccggc ggctccgaac gagatctgag 60
 cgctccgca gtctccgtgg aggccctgga ctccgtcgcc tccgattctg acttagagac 120
 gaaggagccc agtgtgtcga cgatgctgac gagcttcgag aactcgttcg acaagtatgg 180
 ggctctgagc acaccgctgt accagaccgc cacctttaag cagccttcag ctacagatta 240
 tggaacttat gattacacta gaagtggtaa ccctactcgt gatgttctcc agagcctcat 300

ggctaagctt gagaaagcag atcaagcatt ctgcttcacc agcgggatgg cggcggttagc 360
 tgcagtaaca caccttcttc angctggaca agaaatagtt gctgggtgang acatatatgg 420
 tggttctgat cggcttactt ttgcaagttg tgc 453

<210> 963

<211> 230

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 963

cagcgctcc gcagtctccg tggaggccct ggactccatc gcctccnatt ctgacttaga 60
 gacgaaggag cccagtgtgt cgacgatgcn nacgagnttc gagaactcgt tcgacaagta 120
 tggggctctg agcacaccgg tgtaccagac cgccaccttt aagcagcctt cagntacaga 180
 ttatggaact tatgattaca ctagaagtgg taaccctact cgtgatgntc 230

<210> 964

<211> 212

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 964

ccgtgctgga caccaacatc ctctgggtga accccgactg cggantcaag acccgaaagt 60
 acacggaggt caagcccgcc ctgaccaaca tgggtctccgc tgctaactca ttcgcaccca 120
 gctngccagc gccaatgagc ncttttttgc tttntcgttg ggaggnggcn tnttanttct 180
 ntttttnnaa nanagggccccc cccctttttt nt 212

<210> 965

<211> 275

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 965

ggnccaaaca ccaagttctc ctatgcttct cacaaggctg ttaacgaata taaggaggnt 60
 aaggngctcn gtgttganen cgtgcnagta nttgttngnc tagtnntgta gctgtngatc 120
 tcaaagcctg ccaagggtat ggagaacgga tncccnctgg cttgccctta ctaggacgat 180

nctcccngtc tacaaggaag tgnntggnnn aattnaaatg nagecnnnggg ttccaggatt 240
canttttnang agcccgattg tgnncngcnca tgaat 275

<210> 966
<211> 254
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 966

caagacccta acatctctga gcagtgtgac tgcttatggt tttgatcttg tccgtgggtg 60
ggcttggtcac gagtgtggt ttccctgctg gaaagtacct ctttgctggn gttgtggatg 120
gacgcaacat ctgggctgat gatcttgcta catcnctnag naccncaagt cnnntgantn 180
tgnttttggg aagnaangct tgnngancaa ctgctgcgcg tnaggcacng cgcntgnnnc 240
tngtaaanaa caat 254

<210> 967
<211> 313
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 967

cgatatggnt gagtacttcg gtgagcagct ctccggtttt gcgttcactg ccaattgctg 60
ggtgcagtct atnggtcaag gtgcgtcaag cctccgatca tctacggtga cgtgagccgg 120
cccaacccca tgaccgtttc tngtcgaaga cggcacagag catgacgtct cgcccaatga 180
aggggatgct gactggncat cacatctcac tgtccttcgt cggattnaca gcgaggttgn 240
gantgtacag angtcttgga tcaagaagga gngaggncctt gagctgtgta tccgtaccaa 300
cgcgagtnnt gaa 313

<210> 968
<211> 313
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 968

ggangtngag natnttgagg ctgntgcatg tcaggcgatc cngattgatg aggcngntct 60
 aagggagngn ttggcctgcg cangttatag catgcantct acctgcactg cgctgtccnc 120
 tctatcngaa tcaccnctn cagantccan nacncnaacc agatccacac acatatgtgc 180
 tagtnaaact ntaacnanat tatnttngga atcatcgaca tggacgcaga tgtgatcacc 240
 atcgagaact cccgtccgac gagaagctac tttccgtgtt ccgngagggn gtgaagtacg 300
 gagctgggat cng 313

<210> 969

<211> 222

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 969

caaggccaaa aaagatctct gaggagggan tacgtcactg ncatcaagga ggaaatcaag 60
 gnaggtcgtt aaggggnaag aagagcttga cattgatgtg cttgtgcatg gcnagcctga 120
 gagaaacgat atggttgagt acttcggtga gcaactctcg gtttttcntt nactgncaat 180
 ggctnnntnc aanntantng nnnaagggnnc ntnaagnctn na 222

<210> 970

<211> 534

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 970

agntnntnnn tggnggggga aggtatgnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nncgngctcg acaccaacat nctctgggtg 120
 aaccctgact gtggtctcaa gacacgcacg tncacagagg tcaagcccg ctagaccaaca 180
 tgggtctctgc accaagctca tncgcacna acttgnacagc nngaaatgag gtcctngata 240
 gntccatggg ctgatagcnc ggaatgagcc agntgttttg aataatttgg gtgntacccc 300
 ctgnncnatg gnggaagtgn taggttaggc tctcattggn gggatacgcc gntacaagat 360
 gtgttttaag nnnggagtgn gagnttttct ttgngntatg nntctgggng tatgttnnac 420
 gctttgntta taacagaagn tgaaatncgc anngttgcta tacttnggcc aagtnaccaa 480

agctgaccng angaanaact gcagngcacc cttacacacc aangngggaa acgg 534

<210> 971

<211> 435

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 971

ccacgcgttc gcngacgcgt gcgggaacna ccngtctaag ttngagacat nctacnaant 60
nncnattgca atcaaaaagg aggttgagga tcttgaggct gatggatttc aggtgatcca 120
aatcnatngg gcanctgtaa taggaggntc tggcactacn caagttacat natgcattct 180
acctgnactg tncgtgccac tntttnaaga tcacnaactg nngatttnaa gacaccacnc 240
agatncacac cnacatgtgc tantcnaact tcaacnacat catatactcc attatcgaca 300
tggatgccga tntgatcacn atcgagaact cccggttntg actagaanct actgtccnga 360
ntttcgtgan ggtatgaagt acggagctgg cattgaacct ggtgtctact acattcatct 420
cctaggattc ccttc 435

<210> 972

<211> 430

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 972

cccactcttc cnnccactct tncgngnttt angacaaaact tgtcatatna ncttcctggg 60
ggctcattca caccgntgng gatcttctta acnanactaa tcttgacacc gaaattaant 120
cttgncttgc ttttgctgcc cagaaagctg tngaggtnna tgctcttgct aatgcattgg 180
ctgntcaaaa agatnangct tacttcgcan caaatgcttc tgctcatcct cgannaaaann 240
ctcaccgccgt gtgaccaatn aaaaantcca taangctnct gntgctntca aagctcttac 300
cacctccgtg ngaccaacat taactgctag attggatgcc ccatcaaaaa naatcttaac 360
cttcccattc cttccancac tacaatcggn tccatccaca aaccggttna acctcatnaa 420
gatccccngt 430

<210> 973

<211> 266
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 973

ttcgacttca ggccccgggat gatcagcatc aacctcgacc tgnnngaagn gcggcaacaa 60
 nttcatcaag accgccgcct aacggccact tcggccgtga cgacgccgac nttcacctgg 120
 gaggtggtga agccccnaa gttcgacaag gcatcggnntt aaggttggga gtgtcactgt 180
 ggncatgagg actancttcc tctggctctt ctgttacctg naagattgct gctgntggat 240
 gagtgtgttt gatcatgact ggctgc 266

<210> 974
 <211> 303
 <212> DNA
 <213> Zea mays

<400> 974

gttcactgcc aacggatggg tgcaatccta tggatcacgc tgtgtgaagc caccattat 60
 ctacggtgat gtcagccggc cgaaccccat gactgttttc tggccaaga tggcacagag 120
 catgaccct cgtcccatga agggaatgtt gactgggccg gtcacaatcc tcaactggtc 180
 attcgtcagg aacgaccagc ctaggtttga gacatgctac caaatagctc ttgcaatcaa 240
 aaaggaggtt gaggatcttg aggctgctgg tattcaggtg atccagatcg atgaggcagc 300
 tct 303

<210> 975
 <211> 296
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 975

caacggatgg gtgcaatcct atggatcacg ctgtgtgaag ccaccatta tctatggtga 60
 tgtcagccgg ccgaaccca tgactgtntt ctggccaag atggcacaga gcatgacccc 120
 tcgtcccatg aagggaatgt tgactgggcc ggtcacaatc ctgaactggt cattcgtcag 180
 gaacgaccag cctaggtttg agacatgcta ccaaatagct cttgcaatca aaaaggaggt 240

tgaggatctt gaggctgctg gtattcaggt gatccagatc gatgaggcag ctctaa 296

<210> 976

<211> 279

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 976

cactgccaac ggatgggtgc aatcctatgg atcacgctgt gtgaagccac ccattatcta 60

tggtgatgtc agccggccga accccatgac tgttttctgg tccaagatgg cacagagcat 120

gaccctcgt cccatgaagg gaatgttgac tgggtccggtc acaatcctga actgggtcatt 180

cgtcaggaac gaccagccta ggtttgagac ntgctaccaa ntagctcttg cantcaaaaa 240

ggaggttgag gntcttgagg ctgctggtat tcaggtgat 279

<210> 977

<211> 220

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 977

ggaacggncg agnacgcgtg ggngtncagc cggccgaacc ccatnactgt tttctgggtgc 60

aagacggcac agagcatgac cgctcgtccc atgaaggga tgttgactgg tccagtcaca 120

atcctcaact ggtcatttgt caggaacgat cagcctaggt ttgagacatg ctaccaaata 180

gctcttgcaa taaaaaagga ggttgaggat cttgaggctg 220

<210> 978

<211> 295

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 978

cctgaacttg gcccaagcac caagttcaca tacgcttctc acaaggctgt ttctgagtac 60

aaggaggcaa aggcgctcgg cattgataca gtcccagtgc ttgttgacc agtgcatac 120

ttgctcctct ctaagcctgc caagggtgtg gagaaatctt tctctcttct ttnacttctt 180

ggtagcattc ttcccatcta caaggagggtt gttgctgagc tgaaggcagc tgggtgcttca 240

tggtattcaac ttgatgagcc tacccttggt aaagaccttg atgctcnoga attgg 295

<210> 979

<211> 259

<212> DNA

<213> Zea mays

<400> 979

cttctcaciaa ggctgtttct gagtacaagg aggcaaaggc gctcggcatt gatacagtcc 60

cagtgccttgt tggaccagtg tcatacttgc tcctctctaa gcctgccaag ggtgtggaga 120

aatctttctc tcttctttca cttcttggtg gcattcttcc catctacaag gaggttggtg 180

ctgagctgaa ggcagctggt gcttcatgga ttcaacttga tgagcctacc cttgttaaag 240

accttgatgc tcacgaatt 259

<210> 980

<211> 302

<212> DNA

<213> Zea mays

<400> 980

gtttctgagt acaaggaggc aaaagcgctc ggtattgata ctgtcccagt gcttggttga 60

ccagtgtcat acttgtctct ctctaagcct gccaaagggtg tggagaaatc tttctctctt 120

ctttcgcttc ttggcagcat tcttcccatc tacaaggagg ttgtttctga actgaaggca 180

gctggtgctt catggattca gtttgatgag cctacccttg ttaaagacct tgatgttcac 240

gaattgggca gcattctctt cagcatatgt gaactagagt cggcatctct ggattgaatg 300

tg 302

<210> 981

<211> 284

<212> DNA

<213> Zea mays

<400> 981

ggcagctggt gcttcatgga ttcagtttga tgagcctacc cttgttaaag accttgatgt 60

tcacgaattg gcagcattct cttcagcata tgctgaacta gagtcggcat tctctggatt 120

gaatgtgctt atcgagacat actttgctga cattcctgct gagtcctaca agaccctcac 180

gtcattgagt ggtgtgactg cttacggttt tgatcttata cgtggagcca agacccttga 240
tcttatcagg agcagttccc ctctgggaag tacctcttcg ctgg 284

<210> 982
<211> 314
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 982

tgctgagctg aangcagctg gtgcntcatg gattcaactt gatgagccta nccntgttaa 60
agaccttgat gctcacgaat tggccgcatt ctcttcagca tatgctgaac tggagtcata 120
gttctctgga ttgaatgtgc ttatcgagac atacttcgct gacattcctg ctgagtccta 180
caagaccctc acatcaatga gtgggtgtga ctgcctacgg ntctgatctt aaccgtngag 240
ccaagaccct tgatcttata aggagcagct tcccctctgg gaagtacctc ttcgtggtgt 300
tgtagatgga cgca 314

<210> 983
<211> 231
<212> DNA
<213> Zea mays

<400> 983

atacaaaacta ccactttatt gtccctgaac ttggcccaag caccaagttc acatacgtt 60
ctcacaaggc tgtttctgag tacaaggagg caaaggcgct cggcattgat acagtcccag 120
tgcttggttg accagtgtca tacttgctcc tctctaagcc tgccaagggt gtggagaaat 180
ctttctctct tctttcactt cttggttagca ttcttcccat ctacaaggag g 231

<210> 984
<211> 229
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 984

gtttcngagt acaaggaggc aaaggcgctc ggcattgana cagtcccagt gncttgtnng 60
accagtgtca tacttgctcc tctctaagcc tgccaagggt gtggagaaat ctttcncnct 120

tctttcacnt cttggttagca tncntcccat ctacaaggag gttgtngcng agcngaaggc 180
agcnggtgct tcatggattc aacttgatga gcctaccctt gttaaagac 229

<210> 985
<211> 300
<212> DNA
<213> Zea mays

<400> 985

atctttctct cttctttcac ttcttggttag cattcttccc atctacaagg aggttggtgc 60
tgagctgaag gcagctggtg cttcatggat tcaacttgat gagcctaccc ttgttaaaga 120
ccttgatgct cacggaattg gccgcattct cttcagcata tgctgaactg gagtcatcgt 180
tctctggatt gaatgtgctt atcgagacat acttcgctga cattcctgct gagtccctac 240
aagaccctca catcattgag tgggtgtgact gcttacgggtt tcgatcttat ccgtggagcc 300

<210> 986
<211> 177
<212> DNA
<213> Zea mays

<400> 986

gaaatctttc tctcttcttt cgcttcttgg cagcattctt cccatctaca aggaggttgt 60
ttctgaactg aaggcagctg gtgcttcatg gattcagttt gatgagccta cccttgtaa 120
agaccttgat gttcacgaat tggcagcatt ctcttcagca tatgctgaac tagagtc 177

<210> 987
<211> 145
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 987

ggaggntggt gctgagctga aggcagctgg tgcttcatgg attcagcttg atgagcctac 60
ccttgtaaag gaccttgatg ctacgaatt ggccgcattc tcttcagcat atgctgaact 120
ggagtctngt tctctggatt gaatg 145

<210> 988

<211> 189
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 988

attcaacttg atgagcctac ccttggttaa gaccttgatg ctcacgaatt ggccgcatto 60
 tcttcagcat atnctgaact ggagtcacgc ttctcnggat tgaatgtgct atcgagacan 120
 acttcgctga catnctgctg agtcctacaa gaccttcaca tcatgagtgg tgtgatnctt 180
 acggtttcg 189

<210> 989
 <211> 532
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 989

gaggctcgnt ntnntnnngn aacttnaagg gagncttaat ggaaagcttg taccgggccg 60
 gattcccggg tcgaccacgc cgtccgcgga cgcgtgggta caggcttact tcgcagcaaa 120
 tgctgctgct caggcctcga ggaaatcctc accccgtgtg accaatgaag aagtccagaa 180
 ggctgctgct gctctcaagg gctctgacca ccgccgtgcg accaacgtta gtgctagatt 240
 ggatgcccag cagaagaagc ttaacctccc catccttccc accactacaa tcgggttcgtt 300
 cccacaaacc gttgagctca ggagggtccg ccgtgagtag aaggcaaaaa agatctctga 360
 ggaggaatac gtcactgccg tcaaggagga aatcaacaag gtcgttaagc tccaagaaga 420
 gcttgacatt gatgtgcttg tgcatggcga gcctgagaga aacgatatgg ttgagtactt 480
 cggtgagcag ctctccggtt ttgcgttcac tgccaatggc tgggtgcagt ct 532

<210> 990
 <211> 441
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 990

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 aatgaagaag tccagaaggc tgctgctgct ctcaagggct ctgaccaccg ccgtgggacc 120

aacgttagtg ctagattgga tgcccagcag aagaagctta acctcccat ccttcccacc 180
 actacaatcg gttcgttccc acaaaccgtt gagctcagga gggtcgccg tgagtacaag 240
 gcaaaaaaga tctctgagga ggaatacgtc actgccatca aggaggaaat caacaaggtc 300
 gttaagcttc aagaagagct tgacattgat gtgcttgtgc atggcgagcc tgagagaaac 360
 gatatggttg agtacttcgg tgagcagctc ttcggttttg cgttcactgg caatggctgg 420
 gtncagtctt atgggtcaag g 441

<210> 991
 <211> 524
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 991

gnnnnnnagt agtttatnnn ggggnngggg gggggaangg gaagnttcac cggtcggaa 60
 ttcccgggtc gaccacgcg tccgatccag gacaccacc agatccacac ccacatgtgc 120
 tactccaact tcaacgacat catncactng atcatcgaca tggacgcgga cgtgatcacc 180
 atcgagaact cgcggtccga cgagaagctg ctctccgtgt tccgtgaggg tgtcaagtac 240
 ggcgcgggca tcggccccg tgtctacgac atccactccc ccaggatccc gtcggccgag 300
 gagatcgccg accgcatcga caagatgctg gccgtgctgg acaccaacat cctctgggtg 360
 aaccccgact gcggcctcaa gacccgcaag tacacggagg tcaagccgc cctgaccaac 420
 atggtctccg ctgctaagct cattcgcacc cagctcgcca agcgccaaag tgagcacctt 480
 tttttgcctt tttcgtttcc gaggagggcg tcgtcgatgc caat 524

<210> 992
 <211> 436
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 992

gaattncaa ctgcgatttc caggacacca ccagatcca caccacntg tgctactcca 60
 acttcaacga catcatccac tcgatcatcg acatggacgc ggacgtgatc accattgaga 120
 actcgcggtc cgacgagaag ctgctctccg tgttccgcga gggcgtcaag tacggcgcgg 180

gcacgcggccc cggtgtctac gacatccact cccccaggat cccgtcggct gaggagatcg 240
 ccgaccgcat cgacaagatg ctggcggtgc tggacaccaa catcctctgg gtgaaccccg 300
 actgcggcct taagaccgcg aagtacacgg aggtcaaagc ccgcctgacc aacatgggtct 360
 ncgncgctaa gctcatncgc acccagntcg ccancgcaa gtgancacct ttttttttgg 420
 ccttttttngn ttccga 436

<210> 993
 <211> 330
 <212> DNA
 <213> Zea mays

<400> 993
 gcagaaaaag ctcaaccttc ctgtccttcc cacaaccaca attggttcat tccctcagac 60
 tgtggaactc aggaggggtcc gtcgtgagta caaggcaaag aagatctccg aggaggaata 120
 catcagtgcc atcaaggaag aaatcagcaa ggttgtcaag atccaagagg agcttgacat 180
 tgatgtgctt gtgcatggag agccagaaaag aaatgacatg gttgagtact tcggtgagca 240
 attatctggt tttgcattca ctgccaacgg atgggtgcaa tcttatggat cacgttgtgt 300
 gaagccaccc attatctatg gcgatgtcag 330

<210> 994
 <211> 438
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 994

atgacgtctc gcccaatgaa ggggnttctg actggcccag tcacaatcct caactgggcc 60
 ttcgtccgga atgaccagcc gaggtttgag acttgctacc agatcgctct tgcgatcaag 120
 aaggaagtcg aggatcttga ggctgggtgt attcagggtta tccaaatcga cgaggctgca 180
 ctgagagaag ggctgccgct ccgcaaggct gaacatgcat tctacttgga ctgggctgcc 240
 actccttcag aattaccaac tgcgagatcc angacaccac ccagatccac acccacatgt 300
 gctacttcaa cttcaacgac atcatncact cgatcatcga catggacgcc gacgtgaaca 360
 ccattgagaa cttgcggggc gacnagaaac ttntnttccg ngtnncncga aggccgtnaa 420

gtccgggncc gggcatnt

438

<210> 995

<211> 469

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 995

cacagagcat gacccctcgt cccatgaagg tnatgttgac tggtcntntc acaatcctga 60
actggtcatt cgtcaggaac gaccagccta ggtttgagac atgctacaa atagctcttg 120
caatcaaaaa ggaggttgag gatcttgagg ctgctggtat tcaggtgatc cagatcgatg 180
aggcagctct aagggagggt ctgccactac gcaagtcaga gcatgcattc tacctggact 240
gggctgtcca ctctttcagg atcaccaact gcggagtcca ggacaccacc cagatccaca 300
cccacatgtg ctactccaac ttcaacgaca tcatccactc catcatcgac atggatgccc 360
gatgtgatca cgatcgagaa ctcccgtct gaccagaagc tactgtccgt cttncgtgag 420
ggtgtgaaat accggaactg gcattggccc tgggtgtctac gacattcat 469

<210> 996

<211> 353

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 996

tggggctgtc cactctttca ggatcaccaa ctgcggagtc caggacacca cccagatcca 60
caccacatg tgctactcca acttcaacga catcatccac tccatcatcg acatggatgc 120
cgatgtgatc acgatcgaga actcccgtc tgacgagaag ctactgtccg tcttccgtga 180
gggtgtgaag tacggagctg gcattggccc tgggtgtctac gacatccact ctctaggat 240
tccctccacc gaggagatcg cagaccgct cgagaagatg ctgcgccgtc tcgacaccaa 300
catcctctgg gtgaacctga ctgtggtctc aagacacgca atacacggan gtc 353

<210> 997

<211> 452

<212> DNA

<213> Zea mays

<223> unsure at all n locations
 <400> 997

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gaaatcaaca aggtcgttaa gcttcaagaa gagcttgaca ttgatgtgct tgtgcatggc 60
gagcctgaga gaaacgatat ggttgagtac ttcggtgagc agctctccgg ttttgcgttc 120
actgccaatg gctgggtgca gtcttatggg tcaaggtgcg tcaagcctcc gatcatctac 180
ggtgaccgtg agccgcccc accccatgac cgttttctgg tcgaagacgg cacagagcat 240
gacgtctcgc ccaatgaagg ggatgctgac tggcccagtc acaatcctca actggtcctt 300
cgtccggaat gaccagccga ggtttgagac ttgctaccag atccgctctt gcgatcaaga 360
aggaaagtcg aggatcttga agctgggtggg tattcaaggg tatccaaatc gaccagggct 420
tgactnaaa gaaanggctt nccgnttcgn aa 452

```

<210> 998
 <211> 484
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 998

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ttnnnncngcc cngnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn ngacatcatc 60
cactcgatca tcgacatgga cgcggacgtg atcaccatcg agaactcgcg gtccgacgag 120
aagctgctct ccgtgttccg tgagggtgtc aagtacggcg cgggcatcgg ccccgggtgtc 180
tacgacatcc actccccag gatcccgctg gccgaggaga tcgccgaccg catcgacaag 240
atgctggccg tgctggacac caacatcctc tgggtgaacc ccgactgcgg cctcaagacc 300
cgcaagtaca cggagggtcaa gcccgccctg accaacaatgg tctccgctgc taagctcatt 360
cgcaccagc tcgccagcgc caagtgagca cctttttttg cctttttcgt ttccgaagaa 420
gggcgtcgtc natgccaatt ttgtttccaa taaacaaggn tncccccccn tttncnccg 480
ttnt 484

```

<210> 999
 <211> 353
 <212> DNA
 <213> Zea mays

<400> 999

caaggctgag catgcattct acttggactg ggctgtccac tccttcagaa ttaccaactg 60
cgagatccag gacaccaccc agatccacac ccacatgtgc tactccaact tcaacgacat 120
catccactcg atcatcgaca tggacgcgga cgtgatcacc attgagaact cgcggtccga 180
cgagaagctg ctctccgtgt tccgcgaggg cgtcaagtac ggcgcgggca tcggccccgg 240
tgtctacgac atccactccc ccaggatccc gtcggctgag gagatcgccg accgcatcga 300
caagatgtgg cgggtgtggac accaacaatcc tctgggtgaa cccgattgcg gct 353

<210> 1000
<211> 303
<212> DNA
<213> Zea mays

<400> 1000

cagatcgatg aggcagctct aaggaggagg ctgccactac gcaagtcaga gcatgcattc 60
tacctggact gggctgtcca ctctttcagg atcaccaact gcggagtcca ggacaccacc 120
cagatccaca cccacatgtg ctactccaac ttcaacgaca tcatccactc catcatcgac 180
atggatgccg atgtgatcac gatcgagaac tcccggctctg acgagaagct actgtccgtc 240
ttccgtgagg gtgtgaagta cggagctggc attggccctg gtgtctacga catccactct 300
cct 303

<210> 1001
<211> 347
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 1001

atgaggctta ctttgcagcc aatgctgctg ctcaggcctc aaggagatca tcacctagag 60
tgacaaacga ggagggtccaa aaggctgcag ctgctttgaa gggttctgac nnccgccgtg 120
ctactactgt tgctgctaga ttggatgctc agcagaaaaa gctcaacctt cctgtccttc 180
ccacaaccac aattgnntca ttccctcaga ctgtggaact caggagggtc cgtcgtgagt 240
acaaggcaaa gaagatctcc gaggaggaat acatcagtgc catcaaggaa gaaatcagca 300
aggttgtcaa gatccaagag gagcttgaca ttgatgtgct tgtgcat 347

<210> 1002
 <211> 319
 <212> DNA
 <213> Zea mays

 <400> 1002

 caaggcaaaag aagatctccg aggaggaata catcagtgcc atcaaggaag aaatcagcaa 60
 ggttgtcaag atccaagagg agcttgacat tgatgtgctt gtgcatggag agccagaaag 120
 aaatgacatg gttgagtact tcggtgagca attatctggt tttgcattca ctgccaacgg 180
 atgggtgcaa tcttatggat cacgttgtgt gaagccaccc attatctatg gcgatgtcag 240
 ccggccgaac cccatgactg ttttctggtc caagacggca cagagcatga ccgctcgtcc 300
 catgaaggga atgttgact 319

<210> 1003
 <211> 379
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 1003

 caagcttgct gtatcaactt cctgctcgt catgcacacc gctgtggatc ttgtgaacga 60
 gactaagctt gacagcgaga ttaagtcttg gcttgctttt gctgcccaga aggttggtga 120
 ggttgatgct cttgctaagg cattggctgg tcaaaaggat gaggcttact tcgcagcaaa 180
 tgctgctgct caggcctcga ggaaatcctc accccgtgtg accaatgaag aagtccagaa 240
 ggctgctgct gctctcaagg gctctgacca ccgccgtggg accaacgtta gtgctagatt 300
 ggatgccag cagaagaagc ttaacctccc catccttccc accactacaa tcgggttcgg 360
 nnnnnnnnnn nnnnnnnnt 379

<210> 1004
 <211> 351
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 1004

 caggacacca cccagatcca caccacatg tgctactcca acttcaacga catcatccac 60
 tccatcatcg acatggatgc cgatgtgatc acgatcgaga actcccggtc tgacgagaag 120

ctactgtccg tcttccgtga ggggtgtgaag tacggagctg gcattggccc tgggtgtctac 180
gacatccact ctcttaggat tccctccacc gaggagatcg cagaccgctg cgagaagatg 240
ctcgccgtgc tcgacaccaa catcctctgg gtgaacctg actgtggtct caagacacgc 300
aatacacgga ggtcaagccc gncctgacca acaggtctcg gcaacaagct c 351

<210> 1005
<211> 302
<212> DNA
<213> Zea mays

<400> 1005

atcgacgagg ctgcactgag agaagggctg ccgctccgca aggctgagca tgcattctac 60
ttggactggg ctgtccactc cttcagaatc accaactgcg agatccagga caccacccag 120
atccacaccc acatgtgcta ctccaacttc aacgacatca tccactcgat catcgacatg 180
gacgcggacg tgatcaccat cgagaactcg cgggtccgacg agaagctgct ctccgtgttc 240
cgtgaggggtg tcaagtacgg cgcgggcatc ggccccggtg tctacgacat ccaactcccc 300
ag 302

<210> 1006
<211> 296
<212> DNA
<213> Zea mays

<400> 1006

gcagaaaaag ctcaaccttc ctgtccttcc cacaaccaca attggttcat tccctcagac 60
tgtggaactc aggaggggtcc gtcgtgagta caaggcaaag aagatctccg aggaggaata 120
catcagtgcc atcaaggaag aaatcagcaa ggttgtcaag atccaagagg agcttgacat 180
tgatgtgctt gtgcatggag agccagaaaag aaatgacatg gttgagtact tcggtgagca 240
attatctggt tttgcattca ctgccaacgg atgggtgcaa tcttatggat cacggt 296

<210> 1007
<211> 537
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<400> 1007

gntngagtcn ggcttcggcn ttgatgatng cgtantcntt cngnangccg ntngaattc 60
ccgggtcgac ccacgcgtcc ggnaggaata cgtcactgcc atcaaggagg aaattaacaa 120
ggtcgttaag cttcaagaag agcttgacat tgatgtgctt gtgcatggng agcctgagag 180
aaacgatatg gttgagtact tcggtgagca gctctncggt ttgcggttca ctgccaatgg 240
ctgggtgcag tcttatgggt caaggtgcgt caagcctccg atcatctacg gtgacgtgag 300
ccgtcccaac cccatgaccg ttttctgggtc gaagacggcn canagcatga cgtctcgccc 360
aatgaaaggg gatgctgact ngcccagtca caatcctcaa ctggtncctt gtcccggaat 420
naccagccca gggtttgaga nttgctacca gaatcggtt cttgcatca agaaaggga 480
gtncaaagga tctttgangn tgggtggtnt ttaangttta ttncaaaatc gacnaag 537

<210> 1008

<211> 347

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1008

cgttttctgg tcgaagacgg gcgcagagca tgacgtctcg cccaatgaag gggatgctga 60
ctggcccagt cacaatcctc aactggctct tcgtccggaa cgaccagccg aggtttgaga 120
cttgctacca gatcgctctt gcgatcaaga aggaagtcga ggatcttgag gctgggtgga 180
ttcaggttat ccaaactgac gaggctgcac tgagagaagg gctgccgctc cgcaaggctg 240
agcatgcatt ctacttgga tgggctgtcc actccttcag aattaccaac tgcgagatnc 300
aggacaccac cagatccaca cccacatgtg ctactccaac ttcaacg 347

<210> 1009

<211> 339

<212> DNA

<213> Zea mays

<400> 1009

gaggatcttg aggctgctgg tattcaggtg atccagattg atgaggcagc tctaaggag 60
ggtctgccac tgcgcaagtc agagcatgca ttctacctgg actgggctgt ccactctttc 120
agaatcacca actgcggagt ccaggacacc acccagatcc acacccatat gtgctactcc 180

aacttcaacg acatcatcca ctccatcatc gacatggacg cagatgtgat caccatcgag 240
aactcccggg cgcacgagaa gctactgtcc gtgttccgcg aggtgtgaag tacggagctg 300
gaatcgggtcc agtgtctagg aatccactcg ccaagtccc 339

<210> 1010
<211> 313
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 1010

ccgctccgca aggtcgagca tgcattctac ttggactggg ctgtccactc cttcagaaac 60
accaactgcg agatccagga caccacccag atccacaccc acatgtgcta ctccaacttc 120
aacgacatca tccactcgat catcgacatg gacgcggacg tgatcaccat cgagaactcg 180
cgggccgacg agaagctgct ctccgtgttc cgtgaggggtg tcaagtacgg cgcgggcatc 240
ggccccgggtg tctacgacat ccaactcccc aggatcccgt cggccganga gatcgccgac 300
cgcatcgaca aga 313

<210> 1011
<211> 310
<212> DNA
<213> Zea mays

<400> 1011

caacaagggtc gttaagcttc aagaagagct tgacattgat gtgcttgtgc atggcgagcc 60
tgagagaaac gatatggttg agtacttcgg tgagcagctc tccggttttg cgttcactgc 120
caatggctgg gtgcagtctt atgggtcaag gtgcgtcaag cctccgatca tctacggtga 180
cgtgagccgc cccaacccca tgaccgtttt ctggtcgaag acggcacaga gcatgacgtc 240
tcgccaatg aaggggatgc tgactggccc agtcacaatc ctcaactggt ccttcgtccg 300
gaatgaccag 310

<210> 1012
<211> 319
<212> DNA
<213> Zea mays

<400> 1012

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acgatatggt tgagtacttc ggtgagcagc tctccggttt tgcgttcact gccaatggct 60
gggtgcagtc ttatgggtca aggtgcgtca agcctccgat catctacggt gacgtgagcc 120
gccccaaacc catgaccggt ttctgggtcga agacggcgca gagcatgacg tctcgcccaa 180
tgaaggggat gctgactggc ccagtcacaa tcctcaactg gtccttcgtc cggaatgacc 240
agccgaggtt tgagacttgc taccagatcg ctcttgcat caagaaggaa gtcgaggatc 300
tcgaggctgg tggatttca 319
```

<210> 1013

<211> 315

<212> DNA

<213> Zea mays

<400> 1013

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ctagattgga tgcccagcag aagaagctta acctcccat ccttcccacc actacaatcg 60
gttcgttccc acaaaccgtt gagctcagga ggggtccgccg tgagtacaag gcaaaaaaga 120
tctctgagga ggaatacgtc actgccatca aggaggaaat caacaaggtc gttaagcttc 180
aagaagagct tgacattgat gtgcttgtgc atggcgagcc tgagagaaac gatatggttg 240
agtacttcgg tgagcagctc tccggttttg cgttcactgc caatggctgg gtgcagtctt 300
atgggtcaag gtgcg 315
```

<210> 1014

<211> 505

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1014

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aggggtgnag gggggggaag aaaggaactg tcgtaccggt ccggaattcc cgggtcgacc 60
cacgcgtccg cttgtccgtg gaacccaaac tcttgggctt gtcacgagtg ctggtttccc 120
tgctggaag tacctctttg ctgggtgttg ggatggacgc aacatctggg ctgatgatct 180
tgctacatct ctcagcactc tccagtctct tgaggctgtt gttgggaagg acaagcttgt 240
cgtatcaact tcctgctcgc tcatgcacac cgctgtggat cttgtgaacg agactaagct 300
tgacagcgag attaagtctt ggcttgcttt tgctgccag aagggtgttg aggttgatgc 360
```

tcttgctaag gcattggctg gtcaaaagga tgaggcttac ttcgcagcaa atgctgctgc 420
tcaagcctcg aggaaatcct naccocgtgt gaccaatgaa aaatccagaa ngctgctgct 480
gntcttnaag gcttttgacc accgc 505

<210> 1015
<211> 298
<212> DNA
<213> Zea mays

<400> 1015

gccgtgaata caaggcaaag aagatcaccg aggacgaata catcagtgcc atcaagggaag 60
aaatcagcaa gggtgtcaag atccaagagg agcttgacat tgatgtgctt gtgcatggag 120
agccagagag aaatgacatg gttgagtact tcggtgagca attatctggt tttgcgttca 180
ctgccaacgg atgggtgcaa tcctatggat cacgctgtgt gaagccaccc attatctatg 240
gtgatgtcag ccggccgaac cccatgactg ttttctggtc caagatggca cagagcat 298

<210> 1016
<211> 493
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 1016

gggnnnnnngn aangttacgt tncgggnccg gtccaaaata aacgggtcga ngcacgcgtc 60
cgggccaaact tgcctccaa ccttgattcc tgacaaaatt ggctggcatt ctctgctgca 120
tacgcagaaa cttgaatctg tactttctgg attgaatgtg cttgttgaga cttactttgc 180
tgatgttcct gctgagtcct acaagaccct aacatctctg agcagtgtga ctgcttatgg 240
ttttgatctt gtccgtggaa cccaaactct tgggcttgct acgagtgtg gtttccctgc 300
tggaagtac ctctttgctg gtgttggtga tggacgcaac atctgggctg atgatcttgc 360
tacatctctc agcactctcc agtctcttga ggctgttggt gggaaggaca agcttgtcgt 420
atcaacttcc tgctcgctca tgcacaccgc tgtggatctt gtgaacgaga ctaagcttga 480
cagcgagatt aag 493

<210> 1017

<211> 356
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1017

cgccgctgcg ccgttctcct ccgctcccgt cgtccggaaa gatggcgctcc cacattgttg 60
 gataccctcg catgggcccc aagaggggagc tcaagtttgc acttgagtct ttctgggatg 120
 ggaagagcac cgctgaggat ctggagaagg ttgctaccga cctcagggcc agtatctgga 180
 agcagatggc tgatgctggg atcaagtaca tccccagcaa cactttctcg tactatgacc 240
 aggtccttga caccactgcc atgctcggcg ctgtccccga acgttactca tggactggan 300
 gagagattgg anttgacacc tactttctcca tggccagggc aacgcactgt tcctgc 356

<210> 1018
 <211> 344
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1018

gcctaccatc tgttcagaca agcttgtcgt atcaacttcc tgctcgctca tgcacaccgc 60
 tgtggatctt gtgaacgaga ctaagcttga cagcgagatt aagtcttggc ttgcttttgc 120
 tgcccagaag gttgttgagg ttgatgctct tgctaaggca ttggctggtc aaaaggatga 180
 ggcttacttc gcagcaaatg ctgcagctca ggctcgagg aaatcctcac cccgtgtgac 240
 caatgaagaa gtccagaagg ctgctgctgc tctcaagggc tctgaccacc gccgtgagac 300
 caacgttagt gctagattng atgcccagca gaagaagcct aacc 344

<210> 1019
 <211> 292
 <212> DNA
 <213> Zea mays

<400> 1019

ccgccgtgct accactgttg ctgctagatt ggatgctcag cagaaaaagc tcaaccttcc 60
 tgtccttccc acaaccacaa ttggttcatt ccctcagact gtggaactca ggaggggccg 120
 tcgtgagtac aaggcaaaga agatctccga ggaggaatac atcagtgcc tcaaggaaga 180

aatcagcaag gttgtcaaga tccaagagga gcttgacatt gatgtgcttg tgcatggaga 240
gccagaaaga aatgacatgg ttgagtactt cggtagacaa ttatctgggtt tt 292

<210> 1020
<211> 312
<212> DNA
<213> Zea mays

<400> 1020

accagccgag gtttgagact tgctaccaga tcgctcttgc gatcaagaag gaagtcgagg 60
atctcgaggc tgggtgtatt caggttatcc aaatcgacga ggctgcactg agagaagggc 120
tgccgctccg caaggctgag catgcattct acttggaactg ggctgtccac tccttcagaa 180
tcaccaactg cgagatccag gacaccaccc agatccacac ccacatgtgc tactccaact 240
tcaacgacat catccactcg atcatcgaca tggacgcgga cgtgatcacc atcgagaact 300
cgcggtccga cg 312

<210> 1021
<211> 286
<212> DNA
<213> Zea mays

<400> 1021

caagatccaa gaggagcttg acattgatgt gcttgtgcat ggagagccag agagaaatga 60
catggttgag tacttcggtg agcaattatc tgggttttgcg ttcactgcca acggatgggt 120
gcaatcctat ggatcacgct gtgtgaagcc acccattatc tacggtgatg tcagccggcc 180
gaaccccatg actgttttct ggtccaagat ggcacagagc atgaccctc gtcccatgaa 240
gggaatgttg actggtccg tcaaatcct caactgggtca ttcgtc 286

<210> 1022
<211> 287
<212> DNA
<213> Zea mays

<400> 1022

atgtgtact ccaacttcaa cgacatcatc cactccatca tcgacatgga tgccgatgtg 60
atcacgatcg agaactcccg atctgacgag aagctactgt ccgtcttccg tgaggggtgtg 120

aagtacggag ctggcattgg ccttgggtgtc tacgacatcc actctcctag gattccctcc 180
accgaggaga tcgcagaccg cgtcgagaag atgctcgccg tgctggacac caacatcctc 240
tgggtgaacc ctgactgtgg tctcaagaca cgcaagtaca cggagggt 287

<210> 1023
<211> 295
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 1023

caaggntgtc aagatccaag aggagcttga cattgatgtg cttgtgcatg gagagccaga 60
gagaaatgac atggttgagt acttcggtga gnaattatct ggttttgcgt tcaactgcca 120
cggatgggtg caatcctatg gatcacgctg tgtgaagcca cccattatct atggtgatgt 180
cagccggccg aaccccatga ctgttttctg gtccaagatg gcacagagca tgacccctcg 240
tcccatgaag ggaatgttga ctgggtccggt cacaatcctg aactgggtcat tcgtc 295

<210> 1024
<211> 299
<212> DNA
<213> Zea mays

<400> 1024

agaagatcac cgatgacgaa tacatcagtg ccatcaagga agaaatcagc aaggttgtca 60
agatccaaga ggagcttgac attgatgtgc ttgtgcatgg agagccagag agaaatgaca 120
tggttgagta cttcggtgag caattatctg gttttgcgtt cactgccaac ggatgggtgc 180
aatcctatgg atcacgctgt gtgaagccac ccattatcta tggtgatgtc agccggccga 240
accccatgac tgttttctgg tccaagatgg cacagagcat gacccctcgt cccatgaag 299

<210> 1025
<211> 312
<212> DNA
<213> Zea mays

<400> 1025

tgagtacaag gcaaaaaaga tctctgagga ggaatacgtc actgccatca aggaggaaat 60
caacaagggtc gttaagcttc aagaagagct tgacattgat gtgcttgtgc atggcgagcc 120

tgagagaaac gatatggttg agtacttcgg tgagcagctc tccggttttg cgttcactgc 180
 caatggctgg gtgcagtctt atgggtcaag gtgcgtcaag cctccgatca tctacggtga 240
 cgtgagccgc cccaacccca tgaccgtttt ctggtcgaag aggcacagag catgacgtct 300
 cgcccaatga ag 312

<210> 1026
 <211> 299
 <212> DNA
 <213> Zea mays

<400> 1026

aaagatctct gaggaggaat acgtcactgc catcaaggag gaaatcaaca aggtcgttaa 60
 gcttcaagaa gagcttgaca ttgatgtgct tgtgcatggc gagcctgaga gaaacgatat 120
 ggttgagtac ttcggtgagc agctctccgg ttttgcgttc actgccaatg gctgggtgca 180
 gtcttatggg tcaaggtgcg tcaagcctcc gatcatctac ggtgacgtga gccgccccaa 240
 ccccatgacc gttttctggt cgaagacggc acagagcatg acgtctcgcc caatgaagg 299

<210> 1027
 <211> 310
 <212> DNA
 <213> Zea mays

<400> 1027

gtgtgaccaa tgaagaagtc cagaaggctg ctgctgctct caagggtctt gaccaccgcc 60
 gtgggaccaa cgtagtgct agattggatg ccagcagaa gaagcttaac ctccccatcc 120
 ttcccaccac tacaatcggc tcgttccac aaaccgttga gctcaggagg gtccgccgtg 180
 agtacaaggc aaaaaagatc tctgaggagg aatacgtcac tgccatcaag gaggaaatca 240
 acaaggctcg taagcttcaa gaagagcttg acattgatgt gcttgtgcat ggcgagcctg 300
 agagaaacgg 310

<210> 1028
 <211> 305
 <212> DNA
 <213> Zea mays

<400> 1028

gtctcgccca atgaagggga tgctgactgg cccagtcaca atcctcaact ggtccttcgt 60
ccggaatgac cagccgaggt ttgagacttg ctaccagatc gctcttgcca tcaagaagga 120
agtcgaggat cttgaggctg gtggtattca ggttatccaa atcgacgagg ctgcactgag 180
agaagggctg ccgctccgca aggctgagca tgcattctac ttggactggg ctgtccactc 240
cttcagaatt accaactgcg agatccagga caccacccag atccacaccc acatgtgcta 300
ctcca 305

<210> 1029

<211> 330

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1029

cgctgaggat ctggagaagg ttgctaccga cctcagggcc agtatctgga agcagatggc 60
tgatgctggg atcaagtaca tccccagcaa caccttctcg tactatgacc agntccttga 120
caccactgcc atgctcggcg ctgtccccga acgctactca tggactggag gagagattgg 180
gtttgacacc tactttctcca tggccagggg caacgccact gtccctgcta tggagannac 240
caagtggttt gacaccaact accactttat tgtccctgaa ttggggccaa acaccaagtt 300
ctcctatgct tctcacaagg ctgttaacga 330

<210> 1030

<211> 269

<212> DNA

<213> Zea mays

<400> 1030

gcattctacc tggactgggc tgtccactct ttcagaatca ccaactgcgg agtccaggac 60
accacccaga tccacaccca tatgtgctac tccaacttca acgacatcat ccactccatc 120
atcgacatgg acgcagatgt gatcaccatc gagaactccc ggtccgacga gaagctactg 180
tccgtgttcc gcgaggggtg gaagtacgga gctggaatcg gtccaggtgt ctacgacatc 240
cactcgccca ggatcccctc caccgagga 269

<210> 1031

<211> 311
 <212> DNA
 <213> Zea mays

<400> 1031

ctcgcccaat gaaggggatg ctgactggcc cagtcacaat cctcaactgg tccttcgtcc 60
 ggaatgacca gccgaggttt gagacttgct accagatcgt cttgcgatca agaaggaagt 120
 cgaggatctc gaggctggtg gtattcaggt tatccaaatc gacgaggctg cactgagaga 180
 agggctgccg ctccgcaagg ctgagcatgc atttactttg gactgggctg tccactcctt 240
 cagaatcacc aactgcgaga tccaggacac caccagatc cacaccaca tgtgctactc 300
 caacttcaac g 311

<210> 1032
 <211> 382
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1032

gggacaccac ccagatccac acccacatgt gctactccaa ctttcaacga catcatccac 60
 tcgatcatcg acatggacgc ggacgtgatc accattgaga actcgcggtc cgacgagaag 120
 ctgctctccg tgntccgga gggcgtcaag tacggcgcgg gcatcggcnc cgggtgtctac 180
 gacatccact cccccaggat cncgtcggct gangagatcg ccgaccgcat cgacaagatg 240
 ctggcgggtgc tggacancaa catcctctgg gtgaaccccg actgcngcct caagaccgcg 300
 aagtacacgg agtcaagccc gcntgancaa catggtctcc gccgtaagct catccgnacc 360
 agctcgccag cgcaatgana ac 382

<210> 1033
 <211> 292
 <212> DNA
 <213> Zea mays

<400> 1033

aggatcttga ggctgggtgt attcaggtta tccaaatcga cgaggctgca ctgagagaag 60
 ggctgccgct ccgcaaggct gagcatgcat tctacttgga ctgggctgtc cactccttca 120
 gaattaccaa ctgcgagatc caggacacca ccagatcca gaccacatg tgctactcca 180

acttcaacga catcatccac tcgatcatcg acatggacgc ggacgtgac accattgaga 240
 actcgcggtc cgacgagaag ctgctctccg tgttccgcga gggcgtcaag ta 292

<210> 1034
 <211> 320
 <212> DNA
 <213> Zea mays

<400> 1034
 cttgacagcg agattaagtc ttggcttgct tttgctgccc agaaggttgt tgaggttgat 60
 gctcttgcta aggcattggc tggcctcaaaag gatgaggctt acttcgcagc aaatgctgca 120
 gctcaggcct cgaggaaatc ctcaccccggt gtgaccaatg aagaagtcca gaaggctgct 180
 gctgctctca agggctctga ccaccgccgt gcgaccaacg ttagtgctag attggatgcc 240
 cagcagaaga agcttaacct ccccatcctt cccaccacta caatcggttc gttcccacaa 300
 accgttgagc tcaggagggt 320

<210> 1035
 <211> 305
 <212> DNA
 <213> Zea mays

<400> 1035
 acttcggtga gcagctctcc ggttttgcgt tcaactgcaa tggctgggtg cagtcttatg 60
 ggtcaagggtg cgtcaagcct ccgatcatct acggtgacgt gagccgcccc aaccccatga 120
 ccgttttctg gtcgaagacg gcacagagca tgacgtctcg cccaatgaag gggatgctga 180
 ctggcccagt cacaatcctc aactggctct tcgtccggaa tgaccagccg aggtttgaga 240
 cttgctacca gatcgtctct gcgatcaaga aggaagtcga ggatcttgag gctgggtgta 300
 ttcag 305

<210> 1036
 <211> 278
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1036

caagaggagc ttgacattga tgtgcttgtg catggagagc caganagaaa tgacatggtt 60
gagtacttcg gtgagcaatt atctgggttt gcgttcactg ccaacggatg ggtgcaatcc 120
tatggatcac gctgtgtgaa gccacccatt atctatgggtg atgtcagccg gccgaacccc 180
atgactgttt tctgggtccaa gatggcacag agcatgaccc ctcggtcccat gaagggaatg 240
ttgactggtc cggtcacaat cctgaactgg tcattcgt 278

<210> 1037
<211> 298
<212> DNA
<213> Zea mays

<400> 1037

ctctgaggag gaatacgtca ctgccatcaa ggaggaaatc aacaaggtcg ttaagcttca 60
agaagagctt gacattgatg tgcttgtgca tggcgagcct gagagaaacg atatggttga 120
gtacttcggt gagcagctct ccggttttgc gttcactgcc aatggctggg tgcagtctta 180
tgggtcaagg tgcgtcaagc ctccgatcat ctacggtgac gtgagccgcc ccaaccccat 240
gaccgttttc tggtcgaaga cggcacagag catgacgtct cgcccaatga aggggatg 298

<210> 1038
<211> 298
<212> DNA
<213> Zea mays

<400> 1038

ctctgaggag gaatacgtca ctgccatcaa ggaggaaatc aacaaggtcg ttaagcttca 60
agaagagctt gacattgatg tgcttgtgca tggcgagcct gagagaaacg atatggttga 120
gtacttcggt gagcagctct ccggttttgc gttcactgcc aatggctggg tgcagtctta 180
tgggtcaagg tgcgtcaagc ctccgatcat ctacggtgac gtgagccgcc ccaaccccat 240
gaccgttttc tggtcgaaga cggcacagag catgacgtct cgcccaatga aggggatg 298

<210> 1039
<211> 447
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 1039

ggcgctcggg gttgataccg tgccagtact tgttggacca gtctcgtacc tgttgcnngn 60
 aaagcctgcc aagggtgtgg agaagggatt cctcttctt tcccttctta gcagcatcct 120
 cccagtctac aaggaggtca ttgctgagtt gaaggcagct ggggcttcat ggattcagtt 180
 tgatgagccc actcttgtcc tcgaccttga ttctgacaaa ttggctgcat tctctgctgc 240
 atatgcagaa cttgaatctg tactttctgg attgaatgtg cttgttgaga cttactttgc 300
 tgatgttcct gctgagtcct acaagaccct aacatccctg aacagtgtga ctgcttatgg 360
 gtttgatcnt gtccggggac ccnaaactnt tgggcttggc accaaggctg gnttcctnt 420
 tggaanaac cctntttgct gggggtg 447

<210> 1040
 <211> 301
 <212> DNA
 <213> Zea mays

<400> 1040

ctccaagaag agcttgacat tgatgtgctt gtgcatggcg agcctgagag aaacgatatg 60
 gttgagtact tcggtgagca gctcctccgg ttttgcgttc actgccaatg gctgggtgca 120
 gtcttatggg tcaaggtgcg tcaagcctcc gatcatctac ggtgacgtga gccgccccaa 180
 ccccatgacc gttttctggt cgaagacggc gcagagcatg acgtctcgcc caatgaaggg 240
 gatgctgact ggcccagtca caatcctcaa ctggtccttc gtccggaatg accagccgag 300
 g 301

<210> 1041
 <211> 297
 <212> DNA
 <213> Zea mays

<400> 1041

caaggtcgtt aagctccaag aagagcttga cattgatgtg cttgtgcatg gcgagcctga 60
 gagaaacgat atggttgagt acttcggtga gcagctctcc ggttttgcgt tcaactgcaa 120
 tggctgggtg cagtcttatg ggtcaagggt cgtcaagcct ccgatcatct acggtgacgt 180
 gagccgcccc aaccccatga ccgttttctg gtcgaagagg cgcagagcat gacgtctcgc 240
 ccaatgaagg ggatgctgac tggcccagtc acaatcctca actggtcctt cgtccgg 297

<210> 1042
 <211> 548
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1042

gnnnagggtgn tnannggggn nggaaggaac nttttaccgg tccggaattc ccgggtcgac 60
 ccacgcgtcc gcccacgcgt ccgctcgatc atcgacatgg acgcggacgt gatcaccatt 120
 gagaactcgc ggnccgacga gaagctgctc tccgtgttcc gcgagggcgt caagtacggc 180
 gcgggcatcg gccccggtgt ctacgacatc cactcccccga ggatcccgtc ggctgaggag 240
 atcgccgacc gcatcgacaa gatgctggcg gtgctggaca ccaacatcct ctgggtgaac 300
 cccgactgcg gcctcaagac ccgcaagtac acggagggtca agcccgccctg accaacaatgg 360
 tctccgccgc taagctcatc cgcacccagc ttgncagcgc caagtgaagca ccnttttttt 420
 tgcctttttc ggtttcgaag aaggcgtcgt cgatgccaat ttggtttcca ataaaaaggc 480
 tttgcccgcc gtctgtgnac tccgctgngg taaggtaaga agtttcttaa aaaaaaaaaa 540
 angggggc 548

<210> 1043
 <211> 303
 <212> DNA
 <213> Zea mays

<400> 1043

gacggcgcag agcatgacgt ctgcccgaat gaaggggatg ctgactggcc cagtcacaat 60
 cctcaactgg tccttcgtcc ggaatgacca gccgaggttt gagacttgct accagatcgc 120
 tcttgcatc aagaaggaag tcgaggatct cgaggctggt ggtattcagg ttatccaaat 180
 cgacgaggct gcaactgagag aagggtgcc gctccgcaag gctgagcatg cattctactt 240
 ggactgggct gtccactcct tcagaatcac caactgcgag atccaggaca ccaccagat 300
 cca 303

<210> 1044
 <211> 602
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1044

gcggacgtga tcaccattga gaactcgcgg tccgacgaga agctgctctc cgtgttccgc 60
gagggcgctca agtacggcgc gggcatcggc cccgggtgtct acgacatcca ctccccaggg 120
atcccgctcgg ctgaggagat cgccgaccgc atcgacaaga tgctggcggt gctggacacc 180
aacatcctct ggggtgaaccc cgactgcggc ctcaagaccc gcaagtacac ggaggtcaag 240
cccgccctga ccaacatggg ctccgccgct aagctcatcc gcacccagct cgccagcgcc 300
aagtgagcac cttttttttg cttttttcgt ttccgaggag ggcgtcgtcg atgccaattt 360
gtttccaata aacagggctg tgcccgcgct tctgttgtag tccgtctgtg gttagggttag 420
tagttttctt gatctcgccc ccacgcggta cctgttttac tactctctgt ttggtggttt 480
ctgaggcaag ttgcccgtgt acttgatcgc taaaaaccga gtgggacatc tgcacggtt 540
catctgncac cactnccccg aggtgtgctg gttcacggct caaagaaaga tgtcntatcg 600
gc 602

<210> 1045

<211> 273

<212> DNA

<213> Zea mays

<400> 1045

ggttgtcaag atccaagagg agcttgacat tgatgtgctt gtgcatggag agccagagag 60
aaatgacatg gttgagtact tcggtgagca attatctggt tttgcgttca ctgccaacgg 120
atgggtgcaa tcctatggat cacgctgtgt gaagccaccc attatctatg gtgatgtcag 180
ccggccgaac cccatgactg ttttctggtc caagatggca cagagcatga cccctcgtcc 240
catgaaggga atgttgactg gtccggtcac aat 273

<210> 1046

<211> 328

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1046

atcatcgccg ctgcgcgcgc tcctccgcgc ccgtcgtccg gaaagatggc gtcccacatt 60
gttgataacc ctgcgatggg cccaagagg gagctcaagt ttgcacttga gtctttctgg 120
gatgggaaga gcaccgctga ggatctggag aagggttgcta ccgacctcag ggccagtatc 180
tggaagcaga tggtgatgc tgggatcaag tacatcccca gcaacacttt ctctgtactat 240
gaccagggtcc ttgacaccac tgccatgctc ggcgctgtcc ccgaacgtta ctcatgnact 300
ggaggagaga ttggatttga cacctact 328

<210> 1047
<211> 297
<212> DNA
<213> Zea mays

<400> 1047

aaaaaagatc tctgaggagg aatacgtcac tgccatcaag gaggaaatca acaaggctcg 60
taagcttcaa gaagagcttg acattgatgt gcttgtgcat ggcgagcctg agagaaacga 120
tatggttgag tacttcggtg agcagctctc cggtttggcg ttacttgcca atggctgggt 180
gcagtcttat ggggtcaagggt gcgtcaagcc tccgatcatc tacggtgacg tgagccgccc 240
caaccccatg accgttttct ggtcgaagac ggcacagagc atgacgtctc gcccaat 297

<210> 1048
<211> 264
<212> DNA
<213> Zea mays

<400> 1048

ctctttcaga atcaccaact gcggagtcca ggacaccacc cagatccaca cccatatgtg 60
ctactccaac ttcaacgaca tcatccactc catcatcgac atggacgcag atgtgatcac 120
catcgagaac tcccgggtccg acgagaagct actgtccgtg ttccgcgagg gtgtgaagta 180
cggagctgga atcgggtccag gtgtctacga catccactcg ccaggatcc cctccaccga 240
ggagatcgcg gaccgcgtca acaa 264

<210> 1049
<211> 471
<212> DNA
<213> Zea mays

<223> unsure at all n locations
 <400> 1049

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gggnnnnacg ttantcngcg ngnnccggtca naggacncac nggccgaggc ncgcgtccac   60
accnatcatc gccgctgcgc cgtctcctcc gctcccgtcg tccggaaaga tggcggtcca   120
cattgttgga taccctcgca tgggccccaa gagggagctc aagtttgac ttgagtcttt   180
ctgggatggg aagagcaccg ctgaggatct ggagaagggt gctaccgacc tcagggccag   240
tatctggaag cagatggctg atgctgggat caagtacatc cccagcaaca ctttctcgta   300
ctatgaccag gtccttgaca ccaactgccat gctcggcgct gtccccgaac gctactcatg   360
gactggagga gagattgggt ttgacaccta acttctccat ggccaagggc aacgccactg   420
tccctgctat gggagatacc aanttggttt tggacacaaa ctaccaactt t           471
  
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<210> 1050
 <211> 291
 <212> DNA
 <213> Zea mays

<400> 1050

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cgctcccgtc gtccggaaag atggcgctcc acattgttgg ataccctcgc atgggccccca   60
agagggagct caagtttgca cttgagtctt tctgggatgg gaagagcacc gctgaggatc   120
tggagaaggt tgctaccgac ctcagggccca gtatctggaa gcagatggct gatgctggga   180
tcaagtacat ccccagcaac actttctcgt actatgacca ggtccttgac accactgccca   240
tgctcggcgc tgtccccgaa cgttactcat ggactggagg agagattgga t           291
  
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<210> 1051
 <211> 349
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1051

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atccactcca tcatcgacat ggatgccgat gtgatcacga tcgagaactc ccgatctgac   60
gagaagctna ctgtccgtct tccgtgaggg tgtgaagtac ggagctgggc attggccctg   120
gtgtctacga catccactct cctaggattc acctccaccg aggagatcgc agaccgcgtc   180
gagaagatgc tcgccgtgct ggacaccaac atcctctggg tgaaccctga ctgtggtctc   240
  
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aanacacgca agtacacgga ggtcaagccc gccctgacca acatggtctc ggccancaaag 300
ctcatccgca cccagcttgc caacgcgaaa tgagtcgttt gatagctcc 349

<210> 1052
<211> 333
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 1052

gttctagcat ctggaagcaa atgtcagaag ctgggatcaa gtacattccc agcaacacct 60
tctcgtacta tgaccagggtc cttgatacca cggccatgct tgggtgctgtc ccagagcgct 120
actcttggac tggaggcgag attggcttga gcacctatit ctcaatggcc aggggaaatg 180
ccactgtccc tgctatggag atgaccaagt ggtttgatac aaactaccac tttattgtcc 240
ctgaattggc ccaagcacca agttcacata cgcttctcac aangctgttt ctgagtacaa 300
ggaggcaaaa gcgctcggta ttgatatgtc cca 333

<210> 1053
<211> 299
<212> DNA
<213> Zea mays

<400> 1053

ctggaaagta cctctttgct ggtgttgtgg atggacgcaa catctgggct gatgatcttg 60
ctacatctct cagcactctc cagtctcttg aggtctgttg tgggaaggac aagcttgtcg 120
tatcaacttc ctgctcgctc atgcacaccg ctgtggatct tgtgaacgag actaagcttg 180
acagcgagat taagtcttgg cttgcttttg ctgcccagaa ggttgttgag gttgatgctc 240
ttgctaaggc attggctggt caaaaggatg aggttactt cgcagcaaat gctgcagct 299

<210> 1054
<211> 281
<212> DNA
<213> Zea mays

<400> 1054

gctaccagat cgctcttgcg atcaagaagg aagtcgagga tcttgaggct ggtggtattc 60
aggttatcca aatcgacgag gctgcactga gagaagggtc gccgctccgc aaggctgagc 120

atgcattcta cttggactgg gctgtccact ccttcagaat taccaactgc gagatccagg 180
acaccaccca gatccacacc cacatgtgct actccaactt caacgacatc atccactcga 240
tcatcgacat ggacgcggac gtgatcacca ttgagaatcg g 281

<210> 1055
<211> 305
<212> DNA
<213> Zea mays

<400> 1055

cgccgctgcg ccgtctcctc cgctcccgtc gtccggaaaag atggcgtccc acattgttgg 60
ataccctcgc atggggcccca agagggagct caagtttgca cttgagtctt tctgggatgg 120
gaagagcacc gctgaggatc tggagaaggt tgctaccgac ctcagggcca gtatctggaa 180
gcagatggct gatgctggga tcaagtacat ccccagcaac actttctcgt actatgacca 240
ggtccttgac accactgcca tgctcggcgc tgtccccgaa cgttactcat ggactggagg 300
agaga 305

<210> 1056
<211> 292
<212> DNA
<213> Zea mays

<400> 1056

ggctggtcaa aaggatgagg cttacttcgc agcaaagtct gctgctcagg cctcgaggaa 60
atcctcacc cgtgtgacca atgaagaagt ccagaaggct gctgctgctc tcaagggtc 120
tgaccaccgc cgtgggacca acgttagtgc tagattggat gccagcaga agaagcttaa 180
cctccccatc cttcccacca ctacaatcgg ttcgttccca caaaccgttg agctcaggag 240
ggtccgccgt gagtacaagg caaaaaagat ctctgaggag gaatacgtca ct 292

<210> 1057
<211> 279
<212> DNA
<213> Zea mays

<400> 1057

atcaagaagg aagtcgagga tcttgaggct ggtggtattc aggttatcca aatcgacgag 60

gctgcaactga gagaagggct gccgctccgc aaggctgagc atgcattcta cttggactgg 120
gctgtccact ccttcagaat taccaactgc gagatccagg acaccacca gatccacacc 180
cacatgtgct actccaactt caacgacatc atccactcga tcatcgacat ggacgcggac 240
gtgatcacca ttgagaactc gcggtccgac gagaagctg 279

<210> 1058
<211> 286
<212> DNA
<213> Zea mays

<400> 1058

atcgctcttg cgatcaagaa ggaagtcgag gatctcgagg ctggtggtat tcaggttata 60
caaatcgacg aggctgcact gagagaaggg ctgccgctcc gcaaggctga gcatgcattc 120
tacttggaact gggctgtcca ctccctcaga atcaccaact gcgagatcca ggacaccacc 180
cagatccaca cccacatgtg ctactccaac ttcaacgaca tcatccactc gatcatcgac 240
atggacgcgg acgtgatcac catcgagaac tcgcggtccg acgaga 286

<210> 1059
<211> 269
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 1059

caagatccaa gaggagcttg acattgatgt gcttgtgcat ggagagccag agagaaatga 60
catggttgag tacttcggtg agcaattatc tggttttgcg ttcactgcca acggatgggt 120
gcaatcctat ggatcacgct gtgtgaagcc acccattatc tatggtgatg tcagccggnc 180
gaaccccatg actgttttct ggtccaagat ggcacagagc atgaccctc gtcccatgaa 240
gggaatgttg actggtccgg tcacaatcc 269

<210> 1060
<211> 323
<212> DNA
<213> Zea mays

<400> 1060

gcaacatctg gggctgatga tcttgctaca tctctcagca ctctccagtc tcttgaggct 60
gttggtggga aggacaagct tgctgtatca acttcctgct cgctcatgca caccgctgtg 120
gatcttgtga acgagactaa gcttgacagc gagattaagt cttggcttgc ttttgctgcc 180
cagaagggtg ttgagggtga tgctcttgct aaggcattgg ctgggtcaaaa ggatgaggct 240
tacttcgcag caaatgctgc agctcaggcc tcgaggaaat cctcaccocg tgtgaccaat 300
gaagaagtcc agaaggctgc tgc 323

<210> 1061

<211> 287

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1061

angatcttga ggctgctggt attcagggtga tccagattga tgaggcagct ctaagggagg 60
gtctgccact gcgcaagtta gagcatgcat tctacctgga ctgggctgtc cactctttca 120
gaatcaccaa ctgcggagtc caggacacca cccagatcca caccatattg tgctactcca 180
acttcaanga catcatccac tccatcatcg acatggacgc agatgtgatc accatcgaga 240
actcccgtc cgacgagaag ctactgtccg tgttccgcga ggtgtga 287

<210> 1062

<211> 295

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1062

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agcaccgctg aggatntgga gaagggtgct accgacctca gggccagtat ctggaagcag 120
atggctgatg ctgggatcaa gtacatcccc agcaacacct tctcgtacta tgaccaggtc 180
cttgacacca ctgccatgct cggcgtgtc cccgaacgct actcatggac tggaggagag 240
attgggtttg acacctactt ctccatggcc aggggcaacg ccaactgtccc tgcta 295

<210> 1063

<211> 304

<212> DNA

<213> Zea mays

<400> 1063

gtcagagcat gcattctacc tggactgggc tgtccactct ttcaggatca ccaactgcgg 60
agtccaggac accacccaga tccacaccca catgtgctac tccaacttca acgacatcat 120
ccactccatc atcgacatgg atgccgatgt gatcacgacg gagaactccc gatctgacga 180
gaagctactg tccgtcttcc gtgaggggtg gaagtacgga gctggcattg gccctgggtg 240
ctacgacatc catctcctag gattccctcc accgaggaga tcgcagaccg cgtcgagaag 300
atgc 304

<210> 1064

<211> 293

<212> DNA

<213> Zea mays

<400> 1064

ctgcgagatc caggacacca cccagatcca caccacatg tgctactcca acttcaacga 60
catcatccac tcgatcatcg acatggacgc ggacgtgatc accatcgaga actcgcggtc 120
cgacgagaag ctgctctccg tgttccgggg gtgtcaagta cggcgcgggc atcgggccccg 180
gtgtctacga catccactcc cccaggatcc cgtcgggcca ggagatcgcc gaccgcatcg 240
acaagatgct ggccgtgctg gacaccaaca tcctctgggt gaacccccgac tgc 293

<210> 1065

<211> 285

<212> DNA

<213> Zea mays

<400> 1065

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gctggtcaaa aggatgaggc ttacttcgca gcaaagtctg ctgctcaggc ctcgaggaaa 120
tcctcacccc gtgtgaccaa tgaagaagtc cagaaggctg ctgctgctct caagggctct 180
gaccaccgcc gtgggaccaa cgtagtgct agattggatg cccagcagaa gaagcttaac 240
ctccccatcc ttcccaccac tacaatcggg tcgttcccac aaacc 285

<210> 1066

<211> 285
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1066

gggctgtcca ctccttcaga attaccaact gcgagatcca ggacaccacc cagatccaca 60
 cccacatgtg ctactccaac ttcaacgaca tcatccactc gatcatcgac atggacgcgg 120
 acgtgatcac cattgagaac tcgcggtccg acgagaagct gctctccgtg ttccgcgagg 180
 gcgtcaagta tggcgcgggc atcggccccg gtgtctacga catccactcc cccaggatcc 240
 cgtcggctga ggagatcgcc gaccgcatcg acaagatntg gcggt 285

<210> 1067
 <211> 277
 <212> DNA
 <213> Zea mays

<400> 1067

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 ctggaggaga gattggattt gacacctact tctccatggc caggggcaac gccactgttc 180
 ctgctatgga gatgaccaag tggtttgaca ccaactacca ctttattgtc cctgaattgg 240
 gcccaaacac caagttctcc tatgcttctc acaaggc 277

<210> 1068
 <211> 280
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1068

cccagatcca caccacatg ngcncgtcca acttcaacga catcatccac tcgatcatcg 60
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 tggtccgtga ggggtgtcaag tacggcgcg gcatcgggcc cgggtgtctac gacatccact 180
 cccccaggat cccgtcggcc gaggagatcg ccgaccgcat cgacaagatg ctggccgtgc 240
 tggacaccaa catcctctgg gtgaaccccg actgcggcct 280

<210> 1069

<211> 297

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1069

cattgatntg cttgtgcatg gcgagcctga nagaacgat atggttgagt acttcggtga 60

gcagctctcc ggttttgcgt tcaactgcaa tggctgggtg cagtcttatg ggtcaagggtg 120

cgtaagcct ccgatcatct acggtgacgt gagccgcccc aaccccatga ccgttttctg 180

gtcgaagagg cgcagagcat gacgtctcgc ccaatgaagg ggatgctgac tggncagtc 240

acaatcctca actggctcctt cgtccggaat gaccagccga ggtttgaaac tgcnaac 297

<210> 1070

<211> 289

<212> DNA

<213> Zea mays

<400> 1070

cgtcactgcc atcaaggagg aaatcaacaa ggtcgttaag cttcaagaag agcttgacat 60

tgatgtgctt gtgcatggcg agcctgagag aaacgatatg gttgagtact tcggtgagca 120

gctctccggt tttgcgttca ctgccaatgg ctgggtgcag tcttatgggt caagggtcgt 180

caagcctccg atcatctacg gtgacgtgag ccgccccaac cccatgaccg ttttctggtc 240

gaagaggcac agagcatgac gtctcgccca atgaagggga tgctgactg 289

<210> 1071

<211> 486

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1071

gctcagcaga aaaagctcaa ccttcnngtc cnnccacaa ccacaattgg ttcattcccg 60

gaaacggtgg aactcaggng ggttcgncgt gaatacaagg caaagaagat caccgaggac 120

gaatacatca gtgccatcaa ggaagaaatc agcaaggtn gcaagatcca ataggagctn 180

gacattgatg tgcttgtgca tggagagcca gagagaaatg acatgggttg gtacttcggn 240

gagcaattat ctggttttag cgttcactgc caacggatgg gtgcaatnct attgatcacg 300
 ctgtggtgaa gccaccatt atctatgnga tgtcaaagcg gcccnacccc atnctgntnt 360
 ctggtcccaa gatngancat acatgacccc tttnccatg naagggaatg gttgactggg 420
 tcnggtcaca attcttaaac ttggtcattn gntaaaggaa cgacnancct taggtttnaa 480
 anannc 486

<210> 1072
 <211> 286
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1072

aaccccatga ccgttttctg gtcgaagagg tcacagagca tgacgtctcg cccaatgaag 60
 gggatgctga ctggcccagt cacaatcctc aactggctct tcgtccggaa tgaccagccg 120
 aggtttgaga cttgctacca gntcgctctt gcgatcaaga aggaagtcga ggatcttgag 180
 gctggtggta ttcaggttat ccaaatacga gaggctgcac tgagagaagg gctgccgctc 240
 cgcaangctg agcatgcatt ctacttggac tgggctgtcc actcct 286

<210> 1073
 <211> 305
 <212> DNA
 <213> Zea mays

<400> 1073

gaagagcttg acattgatgt gcttgtgcat ggcgagcctg agagaaacga tatggttgag 60
 tacttcggtg agcagctctc cggttttgcg ttcactgcc aatggctgggt gcagtcttat 120
 gggtaaggt gcgtcaagcc tccgatcatc tacgggtgacg tgagccgccc caaccccatg 180
 accgttttct ggtcgaagac ggcacagagc atgacgtctc gcccaatgaa ggggatgctg 240
 actggcccag tcacaatcct caactggtct tcgtccggaa tgaccagccg aggtttgaga 300
 ttgct 305

<210> 1074
 <211> 291
 <212> DNA
 <213> Zea mays

caatcggttc	gttcccacaa	accgttgagc	tcaggaggggt	ccgccgngag	tacaaggcaa	60
aaaagatctc	tgaggaggaa	tacgtcactg	ccatcaagga	ggaaatcaac	aaggtcgtta	120
agcttcaaga	agagcttgac	attgatgtgc	ttgtgcatgg	cgagcctgag	agaaacgata	180
tggttgagta	cttcggtgag	cagctctccg	gttttgcggt	cactgccaat	ggctgggtgc	240
agtcttatgg	gtcaaggngc	gncaagcctc	cgatcatnga	gggtgaccnc	c	291

```
<223>      unsure at all n locations
<400>      1075
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cgacctcagg	gccagtatct	ggaagcagat	ggctgangct	gggatcaagt	acatccccag	120
caacactttc	tcgtactatg	accagggtcct	tgacaccact	gccatgctcg	gcgctgtccc	180
cgaacgttac	tcatggactg	gaggagagat	tggatttgac	acctacttct	ccnnggccag	240
gggcaacgcc	actgttcctg	ctatggagat	gaccangtgg	tttgacacca	ataccac	297

<400> 1076

393

<210> 1077
 <211> 307
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 1077

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 cttgtgaacg agactaagct tgacagcgag attaagtctt ggcttgcttt tgctgcccag 120
 aaggttggtt aggggtganc tcttgctaag gcantggctg gtcaaaagga tgaggcttac 180
 ttgcgagcaa atgctgctgc tcaggcctcg aggaaatcct caccocgtgt gaccaatgaa 240
 gaagtccaga aggctgctgc tgctctcaag ggctctgacc accgccgtgg gaccaacgtt 300
 agtgcta 307

<210> 1078
 <211> 274
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 1078

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 tgagtctttc tgggatggga agaacaccgc tgagnatctg gagaagggtt ctaccgacct 120
 cagggccagt atctggaagc agatggctga tgctgggatc aagtacatcc ccagcaacac 180
 tttctcgta tctgaccagg tccttgacac cactgccatg ctcagcgctg tccccgaacg 240
 ttactcatgg actggaggag agattggatt tgac 274

<210> 1079
 <211> 289
 <212> DNA
 <213> Zea mays

 <400> 1079

 gagagattgg atttgacacc tacttctcca tggccagggg caacgccact gttcctgcta 60
 tggagatgac caagtgggtt gacaccaact accactttat tgtccctgaa ttgggcccac 120
 acaccaagtt ctcctatgct tctcacaagg ctgttaacga atataaggag gctaaggcgc 180
 tcggtgttga taccgtgccg gtacttggtg gaccagtctc gtacctgttg ctctcaaagc 240

ctgccaaggg tgtggagaag ggattccctc ttctttccct tcttagcag 289

<210> 1080

<211> 286

<212> DNA

<213> Zea mays

<400> 1080

ctaagcttga cagcgagatt aagtcttggc ttgcttttgc tgcccagaag gttgttgagg 60

ttgatgctct tgctaaggca ttggctgggc aaaaggatga ggcttacttc gcagcaaatg 120

ctgcagctca ggctcgagg aaatcctcac cccgtgtgac caatgaagaa gtccagaagg 180

ctgctgctgc tctcaagggc tctgaccacc gccgtgacac caacgttagt gctagattgg 240

atgccagca gaagaagctt aacctcccca tccttccac cactac 286

<210> 1081

<211> 323

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1081

cgccgctgcg ccgtctcctc cgtcccggtc gtccggaaag atggcgtccc acattgttgg 60

ataccctcgc atgggccccca agaggagct caagtttgca cttgagtctt tctgggatgg 120

gaagagcacc gctgaggatc tggagaaggc tgctaccgac ctcagggcca gtatctggaa 180

gcagatggct gatgctggga tcaagtacat cccagcaac accttctcgt actatgacca 240

ggtccttgac accactgccca ngctcggcgc tgtccccgaa cgntactcat ggactgggng 300

gagaaattgg gtttcacacc tat 323

<210> 1082

<211> 305

<212> DNA

<213> Zea mays

<400> 1082

cacaaaccgt tgcagctcag gaggggtccgc cgtgagtaca aggcaaaaaa gatctctgag 60

gaggaatacg tcaactgcat caaggaggaa atcaacaagg tcgttaagct ccaagaagag 120

cttgacattg atgtgcttgt gcatggcgag cctgagagaa acgatatggg tgagtacttc 180
 ggtgagcagc tctccggttt tgcgttcact gccaatggct ggggtgcagtc ttatgggtca 240
 aggtgcgtca agcctccgat catctacggt gactgagccg ccccaacccc atgaccgttt 300
 tctgg 305

<210> 1083
 <211> 281
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1083

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 caaggtcgtt aagcnccaag aagagcttga cattgangtg cttgtgcatg gcgagcctga 120
 ganaaacgat atggttgagt acttcggtga gcagctctcc gggtttgcgt tcaactgcaa 180
 tggctgggtg cagtcttatg ggtcaagggtg cgtcaagcct ccgatcatct acggtgacgt 240
 gagccgcccc aaccccatga ccgttttctg gtcgnagacg g 281

<210> 1084
 <211> 314
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1084

gaccagccga ggtttgagac ttgctaccag atcgctcttg cgatcaagaa ggaagtcgag 60
 gatctcgagg ctggtggtat tcaggttatc caaatcgacg aggctgcact gagagaaggg 120
 ctgccgctcc gcaaggctga gcatgcattc tacttggacn gggctgtcca cnccttcaga 180
 atcaccaacn gcgagatcca ggacaccacc cagatccaca cccacatgtg ctacnccaac 240
 ttcaacgaca tcatccactc gatcatcgac atggacgcgg ngtgatcacc acgaganncn 300
 ggtcgcgaga actg 314

<210> 1085
 <211> 281
 <212> DNA
 <213> Zea mays

<400> 1085

gtgtgaccaa tgaagaagtc cagaaggctg ctgctgctct caagggtctt gaccaccgcc 60
gtgggaccaa cgttagtgt agattggatg cccagcagaa gaagcttaac ctccccatcc 120
ttcccaccac tacaatcggc tcgttcccac aaaccgttga gctcaggagg gtccgccgtg 180
agtacaaggc aaaaaagatc tctgaggagg aatacgtcac tgccatcaag gaggaaatca 240
acaaggctgt taagcttcaa gaagagcttg acattgatgt g 281

<210> 1086

<211> 306

<212> DNA

<213> Zea mays

<400> 1086

ctatcatcgc cgctgcgccg tctcctccgc tcccgtcgtc cggaaagatg gcgtcccaca 60
ttgttgata ccctcgcgtg ggccccaaga gggagctcaa gtttgactt gagtctttct 120
gggatgggaa gagcaccgct gaggatctgg agaagggtgc taccgacctc agggccagta 180
tctggaagca gatggctgat gctgggatca agtacatccc cagcaacacc ttctcgtact 240
atgaccaggt ccttgacacc actgccatgc tcggcgtgt cccggaacgc tactcatgga 300
ctggag 306

<210> 1087

<211> 265

<212> DNA

<213> Zea mays

<400> 1087

tgctggtatt caggtgatcc agatcgatga ggcagctcta agggagggtc tgccactacg 60
caagtcagag catgcattct acctggactg ggctgtccac tttttcagga tcaccaactg 120
cggagtccag gacaccaccc agatccacac ccacatgtgc tactccaact tcaacgacat 180
catccactcc atcatcgaca tggatgccga tgtgatcacg atcgagaact cccggtctga 240
cgagaagcta ctgtccgtct tccgt 265

<210> 1088

<211> 266

<212> DNA

<213> Zea mays
 <400> 1088
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 caggaggggtc cgccgtgagt acaaggcaaa aaagatctct gaggaggaat acgtcactgc 120
 catcaaggag gaaatcaaca aggtcgttaa gcttcaagaa gagcttgaca ttgatgtgct 180
 tgtgcatggc gagcctgaga gaaacgatat gggttgagtac ttcggtgagc agctctccgg 240
 ttttgcgttc actgccaatg gctggg 266

<210> 1089
 <211> 311
 <212> DNA
 <213> Zea mays
 <400> 1089
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 gcgtcaagcc tccgatcatc tacggtgacg tgagccgccc caaccccatg accgttttct 120
 ggtcgaagac ggcacagagc atgacgtctc gcccaatgaa ggggatgctg actggcccag 180
 tcacaatcct caactgggtcc ttcggtccgga atgaccagcc gaggtttgag acttgcctacc 240
 agatcgctct tgcgatcaag aagggaagtcg aggatttgag gctggtggtta ttcagggttat 300
 ccaaatacgac g 311

<210> 1090
 <211> 309
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <400> 1090
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 ggatgggaag agcaccgctg aggatctgga gaaggttgct accgacctca gggccagtat 180
 ctggaagcag atggctgatg ctgggatcaa gtacatcccc agcaacacct tctcgtacta 240
 tgaccagggtc cttgacacca ctgccatgct cggcgctgtc cccgaacgct antcatggac 300
 tggaggaga 309

<210> 1091
 <211> 291
 <212> DNA
 <213> Zea mays

<400> 1091

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 tgctctccgt gttccgtgag ggtgtcaagt acggcgcggg catcggtccc ggtgtctacg 120
 acatccactc ccccaggatc ccgtcggccg aggagatcgc cgaccgcacg gacaagatgc 180
 tggccgtgct ggacaccaac atcctctggg tgaaccccga ctgcggcctc aagaccgcga 240
 agtacacgga ggtcaagccc gccctgacca acatggtctc cgctgctaag t 291

<210> 1092
 <211> 295
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1092

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 aggaaatcaa caaggctcgt ccagcttcaa gaancagctt gacattgatg tgcttgtgca 120
 tggcgagcct gagagaaaacg atatggttga gtacttcggt gagcagctct ccggttttgc 180
 gttcactgcc aatggctggg tgcaagtctta tgggtcaagg tgcgtcaagc ctccgatcat 240
 ctacggtgac gtgagccgcc ccaaccccat gaccgttttc tggtcgaaga ggcac 295

<210> 1093
 <211> 285
 <212> DNA
 <213> Zea mays

<400> 1093

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 agtcacaatc ctcaactggt ccttcgtccg gaatgaccag ccgaggtttg agacttgcta 180
 ccagatcgct cttgcatca agaaggaagt cgaggatctc gaggctggtg gtattcaggt 240

tatccaaatc gacgaggctg cactgagaga agggctgccg ctccg 285

<210> 1094

<211> 266

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1094

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gntgtccact ccttcagaat tnccaactgc gagatccagg acaccnccca gatccacacc 120

cacatgtgct actccaactt caacgacatc atccactcga tcatcgacat ggacgcggac 180

gtgatcacca ttgagaactc gcggtccgac ganaagctgc tctccgtgtt ccgcgagggc 240

gtcaagtacg gcgcgggcat cggccc 266

<210> 1095

<211> 327

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1095

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tgagacttgc taccagatcg ctcttgcgat caagaaggaa gtcgaggatc ttgaggctgg 120

tggtattcag gttatccaaa tcgacgaggc tgactgaga gaagggtgc cgctccgcaa 180

ggctgagcat gcattctact tggactgggc tgtccaactcc ttcagaatta ccaactgcga 240

gatccaggac accacccaga tccacaccca catgtgctat ccaattcacg acatcatcca 300

tcgatcatcg ncatggngcg gcgtgat 327

<210> 1096

<211> 259

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1096

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ccatcatcga catggatgcc gatgtgatca cgatcgagaa ctcccgtct gacgagaagc 120

tactgtccgt cttccgtgag ggtgtgaagt acggagctgg cattggccct ggtgtctacg 180
 acatccactc tcctaggatt ccctccaccg aggagatcgc agaccgcgtc gagaagatgc 240
 tcgcngtgtn gananaant 259

<210> 1097
 <211> 280
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <400> 1097

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 aggtgtctac gacatccact cgcccaggat ccctccacc gagagatcgc cggaccgcgt 120
 caacaagatg ctcgccgtgc tcgacaccaa catcctctgg gtgaaccctg actgcggtct 180
 caagacacgc aagtacacgg aggtgaagcc tgccctgacc aacatgggtct ccgccaccaa 240
 gctcatccgc acccagctcg gcagcgcgaa atgagtcaga 280

<210> 1098
 <211> 303
 <212> DNA
 <213> Zea mays
 <400> 1098

gcgtcctcct cacctatcat cgccgctgcg ccgtctcctc cgctcccgtc gtccggaaag 60
 atggcggtccc acattgttgg ataccctcgc atggggccca agagggagct caagtttgca 120
 cttgagtctt tctgggatgg gaagagcacc gctgaggatc tggagaaggt tgctaccgac 180
 ctcagggcca gtatctggaa gcagatggct gatgctggga tcaagtacat ccccagcaac 240
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 cgt 303

<210> 1099
 <211> 305
 <212> DNA
 <213> Zea mays
 <400> 1099

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cccacattgt tggataccct cgcattgggcc ccaagaggga gctcaagttt gcacttgagt	120
ctttctggga tgggaagagc accgctgagg atctggagaa ggttgctacc gacctcaggg	180
ccagtatctg gaagcagatg gctgatgctg ggatcaagta catccccagc aacactttct	240
cgtactatga ccaggctcct gacaccactg ccatgctcgg cgctgtcccc gaacgttact	300
catgg	305

<210> 1100
 <211> 303
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 1100

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tttctgggat gggaagagca ccgctgagga tctggagaag gttgctaccg acctcagggc	180
cagtatctgg aagcagatgg ctgatgctgg gatcaagtac atccccagca aactttctc	240
gtactatgac caggggcaac gccactgttc ctgctatgga gatgaccaag tggtttgaca	300
cca	303

<210> 1101
 <211> 288
 <212> DNA
 <213> Zea mays

 <400> 1101

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ttctggtcga agaggcacag agcatgacgt ctgcaccaat gaaggggatg ctgactggcc	120
cagtcacaat cctcaactgg tccttcgtcc ggaatgacca gccgaggttt gagacttgct	180
accagatcgc tcttgcatc aagaagggaag tcgaggatct tgaggctggg ggtattcagg	240
ttatccaaat cgacgaggct gactgagag aagggtgcc gctccgca	288

<210> 1102
 <211> 275

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 1102

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 gacgtgatca ccatcgagaa ctgcggtcc gacgagaagc tgctctccgt gttccgtgag 120
 ggtgtcaagt acggcgcggg catcggtccc ggtgtctacg acatccactc ccccaggatc 180
 ccgtcggccg aggagatcgc cgaccgcacg gacaagatgc tggccgtgct ggacaccaac 240
 atcctctggg tgaaccccga ctgcggcctc aagac 275

<210> 1103
 <211> 319
 <212> DNA
 <213> Zea mays

 <400> 1103

 gtgagccgcc ccaaccccat gaccgttttc tggtcgaaga cgggcgcaga gcatgacgtc 60
 tcgccaatg aaggggatgc tgactggccc agtcacaatc ctcaactggt ccttcgtccg 120
 gaacgaccag ccgaggtttg agacttgcta ccagatcgct cttgcgatca agaagggaagt 180
 cgaggatctt gaggctggtg gtattcaggt tatccaaatc gacgaggctg cactgagaga 240
 agggctgccg ctccgcaagg ctgagcatgc attctacttg gatgggctgt ccatccttca 300
 gaataccaac tgcgagatc 319

<210> 1104
 <211> 277
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 1104

 ctcttgctaa ggcatgggt ggtcaaaagg atgaggctta cttcgcagca aatgctgctg 60
 ctcaggcctc gaggaatcc tcaccccgctg tgaccaatga agaagtccag aaggctgctg 120
 ctgctctcaa gggctctgac caccgcccgtg ggaccaacgt tagtgctaga ttggatgccc 180
 agcagaagaa gcttaacctc cccatccttc ccaccactac aatcggttcg ttcccacaaa 240
 ccgttgagct caggagggct cgccgtgagt acaangc 277

<210> 1105
 <211> 308
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1105

caagaagagc ttgacattga tgtgcttgtg catggcgagc ctgagagaaa cgatatggtt 60
 gagtacttcg gtgagcagct ctccggtttt gcgttcactg ccaatggctg ggtgcagtct 120
 tatgggtcaa ggtgcgtcaa gcctccgata atctacggtg angcnnaccg ccccaacccc 180
 atgaccgttt tctggctgaa gacggcacag agcatgacgt ctcgcccaat gaaggggatg 240
 ctgactggcc cagtcacaat cctcaatggc ccttcgtccg gaatgaccan ccgangtttg 300
 agatttct 308

<210> 1106
 <211> 313
 <212> DNA
 <213> Zea mays

<400> 1106

ggaggctaag gcgctcgggtg ttgataccgt gccagtactt gttggaccag tctcgtacct 60
 gttgctctca aagcccgcca aggggtgtgga gaagggattc cctcttcttt cccttcttag 120
 cagcatcctc ccagtctaca aggaggtcat tgctgagttg aaggcagctg gggcttcatg 180
 gattcagttt gatgagccca ctcttgctct cgaccttgat tctgacaaat tggctgcatt 240
 ctctgctgca tacgcagaac ttgaatctgt actttctgga ttgaatgtgc ttgttgagac 300
 ttactttgct gat 313

<210> 1107
 <211> 279
 <212> DNA
 <213> Zea mays

<400> 1107

gatgaggctt acttcgcagc aaatgctgca gctcaggcct cgaggaaatc ctcaccccgt 60
 gtgaccaatg aagaagtcca gaaggctgct gctgctctca agggctctga ccaccgccgt 120

gcgaccaacg ttagtgctag attggatgcc cagcagaaga agcttaacct ccccatcctt 180
cccaccacta caatcgggttc gttcccacaa accgttgagc tcaggagggt ccgccgtgag 240
tacaaggcaa aaaagatctc tgaggaggaa tacgtcact 279

<210> 1108
<211> 264
<212> DNA
<213> Zea mays

<400> 1108

aaacgaggag gtccaaaagg ctgcagctgc tttgaagggt tctgaccacc gccgtgctac 60
cactgttgct gctagattgg atgctcagca gaaaaagctc aaccttcctg tccttcccac 120
aaccacaatt ggttcattcc ctccagactgt ggaactcagg aggggtccgtc gtgagtacaa 180
ggcaaagaag atctccgagg aggaatacat cagtgccatc aaggaagaaa tcagcaagggt 240
tgtcaagatc caagaggagc ttga 264

<210> 1109
<211> 275
<212> DNA
<213> Zea mays

<400> 1109

ggttgatgct cttgctaagg cattggctgg tcaaaaaggat gaggcttact tcgcagcaaa 60
tgctgctgct caggcctcga ggaaatcctc accccgtgtg accaatgaag aagtccagaa 120
ggctgctgct gctctcaagg gctctgacca ccgccgtggg accaacgtta gtgctagatt 180
ggatgcccag cagaagaagc ttaacctccc catccttccc accactacaa tcgggttcgtt 240
cccacaaacc gttgagctca ggagggtccg ccgtg 275

<210> 1110
<211> 278
<212> DNA
<213> Zea mays

<400> 1110

ctcatggact ggaggagaga ttggatttga cacctacttc tccatggcca ggggcaacgc 60
cactgttcct gctatggaga tgaccaagtg gtttgacacc aactaccact ttattgtccc 120

tgaattgggc ccaaacacca agttctccta tgcttctcac aaggctgtta acgaatataa 180
ggaggctaag gcgctcggtg ttgataccgt gccagtactt gttggaccag tctcgtacct 240
gttgctctca aagcctgcc aaggtgtgga gaagggat 278

<210> 1111
<211> 310
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 1111

cacctatcat cgccgctgcg ccgtctcctc cgctcccgtc gtccggaaag atggcgtccc 60
acattgttgg ataccctcgc atgggccccca agaggggagct caagtttgca cttgagtctt 120
tctgggatgg gaagagcacc gctgaggatc tggagaaggt tgctaccgac ctcagggcca 180
gtatctggaa gcagatggct gatgctggga tcaagtacat cccagcaac accttctcgt 240
actatgacca ggtccttgac accactgcc a tgctcggcgc tgtccccana acgctactca 300
tggaactggag 310

<210> 1112
<211> 265
<212> DNA
<213> Zea mays

<400> 1112

gtcactgcc acaaggagga aatcaacaag gtcgttaagc tccaagaaga gcttgacatt 60
gatgtgcttg tgcatggcga gcctgagaga aacgatatgg ttgagtactt cggtagcag 120
ctctccgggt ttgcgttcac tgccaatggc tgggtgcagt cttatgggtc aaggtgcgtc 180
aagcctccga tcatctacgg tgacgtgagc cgcccccaacc ccatgaccgt tttctggtcg 240
aagacggcgc agagcatgac gtctc 265

<210> 1113
<211> 305
<212> DNA
<213> Zea mays

<400> 1113

cgacgagaag ctactgtccg tgttccgcga ggggtgtgaag tacggagctg gaatcgggtcc 60

aggtgtctac gacatccaact tcgcccagga tcccctccac cgaggagatc gcggaccgcg 120
tcaacaagat gctcgccgtg ctcgacacca acatcctctg ggtgaaccct gactgcggtc 180
tcaagacacg caagtacacg gaggtgaagc ctgccctgac caacatggtc tccgccacca 240
agctcatccg caccagctc ggcagcgcga aatgagtcag atttggtaga tccatggttt 300
gttga 305

<210> 1114
<211> 310
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 1114

gtggtttgac accaactacc actttattgt ccctgaattg ggcccaaaca ccaagttctc 60
ctatgcttct cacaaggctg ttaacgaata taaggaggct aaggcgctcg gtgttgatac 120
cgtgccagta cttgttgac cagtctcgta cctgttgctc tcaaagcctg ccaagggtgt 180
ggagaaggga ttccctcttc ttcccttct tagcagnact tcccagtcta caaggaggtc 240
attgctgagt tgaaggcagc tggggcttca ggattcagtt tgatgagccc atcttgtcct 300
cgactngatt 310

<210> 1115
<211> 331
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 1115

taagcttcaa gaagagcttg acattgatgt gcttngcat ggcgagcctg anagaaacga 60
tatggttgag tacttcggtg agcagctctc cggttttgcg ttactgcca atggcngggt 120
gcagtcttat ggggtcaaggc gcgtcaagcc tccgatcatc tacggtgacg tgagccgccc 180
caaccccatg accgttttct ggctgaagac gggcacagag catgacgtct cgcccaatga 240
angggatgct gactggccca gtcacaatcc tcnactggtc ttcgccgga atgaccagcc 300
gangttgaga ttgctacnag atcgctcttg c 331

<210> 1116

<211> 279

<212> DNA

<213> Zea mays

<400> 1116

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aacaaggtcg ttaagcttca agaagagctt gacattgatg tgcttggtgca tggcgagcct   60
gagagaaaacg atatggttga gtacttcggt gagcagctct ccggttttgc gttcactgcc  120
aatggctggg tgcagtctta tgggtcaagg tgcgtcaagc ctccgatcat ctacggtgac  180
gtgagccgcc ccaaccccat gaccgttttc tggtcgaaga ggcacagagc atgacgtctc  240
gcccaatgaa ggggatgctg actggcccag tcacaatcc                               279
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<210> 1117

<211> 292

<212> DNA

<213> Zea mays

<400> 1117

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atcgccgctg cgccgtctcc tccgtccccg tcgtccggaa agatggcgtc ccacattggt   60
ggataccctc gcatggggcc ccaagagggg gctcaagttt gcacttgagt ctttctggga  120
tgggaagagc accgctgagg atctggagaa ggttgctacc gacctcaggg ccagtatctg  180
gaagcagatg gctgatgctg ggatcaagta catccccagc aacactttct cgtactatga  240
ccaggtcctt gacaccactg ccatgctcgg cgctgtcccc gaacgttact ca           292
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<210> 1118

<211> 270

<212> DNA

<213> Zea mays

<400> 1118

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gaggaaatca acaaggctgt taagctccaa gaagagcttg acattgatgt gcttggtgcat   60
ggcgagcctg agagaaaacga tatggttgag tacttcggtg agcagctctc cggttttgcg  120
ttcactgcca atggctgggt gcagtcttat ggggtcaagg gcgtaagcc tccgatcatc  180
tacggtgacg tgagccgccc caaccccatg accgttttct ggtcgaagag gcgcagagca  240
tgacgtctcg cccaatgaag gggatgctga                               270
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<210> 1119
 <211> 252
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 1119

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 accgttgagc tcaggagggt ccgccgtgag tacaaggcaa aaaagatctc tgaggaggaa 120
 tacgtcactg ccatcaagga ggaaatcaac aaggtcgtta agctccaaga agagcttgac 180
 attgatgtgc ttgtgcatgg cgagcctgag agaaacgata tggttgagta cttcggtgag 240
 cagctctccg gt 252

<210> 1120
 <211> 284
 <212> DNA
 <213> Zea mays

 <400> 1120

 cgttttctgg tcgaagaggc acagagcatg acgtctcgcc caatgaaggg gatgctgact 60
 ggcccagtca caatcctcaa ctggctcctt gtccggaatg accagccgag gtttgagact 120
 tgctaccaga tcgctcttgc gatcaagaag gaagtcgagg atcttgaggc tgggtgtatt 180
 caggttatcc aaatcgacga ggctgcactg agagaagggc tgccgctccg caaggctgag 240
 catgcattct acttggaactg ggctgtccac tccttcagaa ttac 284

<210> 1121
 <211> 287
 <212> DNA
 <213> Zea mays

 <400> 1121

 cgctcatgca caccgctgtg gatcttgtga acgagactaa gcttgacagc gagattaagt 60
 cttggcttgc ttttgctgcc cagaagggtt ttgagggtga tgctcttgct aaggcattgg 120
 ctgggtcaaaa ggatgaggct tacttcgcag caaatgctgc tgctcaggcc tcgaggaaat 180
 cctcaccgctg tgtgaccaat gaagaagtcc agaaggctgc tgctgctctc aagggtctg 240
 accaccgctg tgggaccaac gttagtgtga gattggatgc ccagcag 287

<210> 1122
 <211> 290
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1122

cggacntggn ccgctgtgga tcttgtgaac gagactaagc ttgacagcga gattaagtct 60
 tggcttgctt ttgctgcccc gaagggttgtt gaggttgatg ctcttgctaa ggcataggct 120
 ggtcaaaagg atgaggctta cttcgcagca aatgctgcag ctcaggcctc gaggaaatcc 180
 tcaccccgctg tgaccaatga agaagtccag aaggctgctg ctgctctcaa gggctctgac 240
 caccgccgtg cgaccaacgt tagtgctaga ttggatgccc agcagaagaa 290

<210> 1123
 <211> 344
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1123

cgtcactgcc atcaaggagg naatcaacaa ggtcgttaag cttcaagaag agcttgacat 60
 tgatgtgctt gtgcatggcg agcctgagag aaacgatatg gttgagtact tcggtgagca 120
 gctctccggt tttgcgttca ctgccaatgg ctgggtgcag tcttatgggt caagggtgcgt 180
 caagcctccg atcancnacg gtgacgtgag cggccccaac cccatgaccg ttttctggtc 240
 gaagacggca cagagcatga cgtctcgccc atgangggat gctgctggcc catcacaanc 300
 ctcaatngtc cttcgtccgg atgaccagcg agttgagntt ctac 344

<210> 1124
 <211> 261
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1124

cgtcactgcc atcaaggagg aaatcaacaa ggtcgttaag ctcnaagaag agcttgacat 60
 tgatgtgctt gtgcatggcg agcctgagag aaacgatatg gttgagtact tcggtgagca 120
 gctctccggt tttgcgttca ctgccaatgg ctgggtgcag tcttatgggt caagggtgcgt 180

caagcctccg atcatctacg gtgacgtgag ccgccccaac cccatgaccg ttttctggtc 240
gaagacggcg caaagcatga c 261

<210> 1125
<211> 301
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 1125

gcacgcgtgg gcgacatgga cgcggacgtg atcaccattg agaactcgcg gtccgacgag 60
aagctgctct ccgtgttccg annngggcgtc aaacncggcg cgggcatcgg ccccgggtgc 120
tacgacatcc actccccag gatcccgtcg gctgaggaga tcgccgaccg catcgacaag 180
atgctggcgg tgctggacac caacatcctc tgggtgaacc ccgactgcgg cctcaagacc 240
cgcaagtaca cggaggtcaa gcccgccctg accaacaatgg tctccgccgc taagctcatc 300
c 301

<210> 1126
<211> 264
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 1126

gggctgtcca ctcttcaga attaccaact gcnagatcca ggacaccacc cagatccaca 60
cccacatgtg ctactccaac ttcaacgnca tcatccactc gatcatcgac atggacgcgg 120
acgtgntcac cattgagaac tcgcgggtccg acgagaagct gctctccgtg ttccgcgagg 180
gcgtcaagta cggcgcgggc atcggccccg gtgtctacga catccnctcc cccaggatcc 240
cgtcgggtga ggagatcgcc gacc 264

<210> 1127
<211> 277
<212> DNA
<213> Zea mays

<400> 1127

atcatccact cgatcatcga catggacgcg gacgtgatca ccattgagaa ctcgcgggtcc 60

gacgagaagc tgctctccgt gttccgcgag ggcgtcaagt acggcgcggg catcggtccc 120
 ggtgtctacg acatccactc ccccaggatc ccgtcggctg aggagatcgc cgaccgcatc 180
 gacaagatgc tggcgggtgt ggacaccaac atcctctggg tgaaccccga ctgcggcctc 240
 aagacccgca agtacacgga ggtcaagccc gcctgac 277

<210> 1128
 <211> 246
 <212> DNA
 <213> Zea mays

<400> 1128

gggctgtcca ctctttcagg atcaccaact gcggagtcca ggacaccacc cagatccaca 60
 cccacatgtg ctactccaac ttcaacggac atcatccact ccatcatcga catggatgcc 120
 gatgtgatca cgatcgagaa ctcccgatct gacgagaagc tactgtccgt cttccgtgag 180
 ggtgtgaagt acggagctgg cattggccct ggtgtctacg acatccactc tcctaggatt 240
 ccctcc 246

<210> 1129
 <211> 270
 <212> DNA
 <213> Zea mays

<400> 1129

aaatcaacaa ggtcgttaag ctccaagaag agcttgacat tgatgtgctt gtgcatggcg 60
 agcctgagag aaacgctatg gttgagtact tcggtgagca gctctccggt tttgcgttca 120
 ctgccaatgg ctgggtgcag tcttatgggt caagggtcgt caagcctccg atcatctacg 180
 gtgacgtgag ccgccccaac cccatgaccg ttttctggtc gaagaggcgc agagcatgac 240
 gtctcgccca atgaagggga tgctgactgg 270

<210> 1130
 <211> 492
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1130

ttannttccg cgccagtaag gtaagaattc ccgggncgac ccacgcgtca gtgagaactc 60
 gcggtccgac gagaagctgc tctccgtggt ccgcgagggc gtcaagtacg gcgcgggcat 120
 cggccccggt gtctacgaca tccactcccc caggatcccc tcggtgagg agatcgccga 180
 ccgcacgac aagatgctgg cgggtgctgga caccaacatc ctctgggtga accccgactg 240
 cggcctcaag acccgcaagt acacggagggt caagcccgcc ctgaccaaca tggctctccgc 300
 cgctaaagct catccgcacc cagctcgcca gcgccaagt agcacctttt ttttgccttt 360
 ttcgtttccg aaganggcgt cntcgatgcc aatttgtttc caataaacan ggctgtnncc 420
 cgccgttccg gttgtnancc gttcgggtgg aaggttanna attttcctga atttcccccc 480
 aanggcggtt ng 492

<210> 1131
 <211> 250
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <400> 1131

aactcaggag ggttcgccgt gaatacaagg cnaagaagat caccgaggac gaatacatca 60
 gtgccatcaa ggaagaaatc agcaagggtg tcaagatcca agaggagctt gacattgatg 120
 tgcttggtgca tggagagcca gagagaaatg acatgggtga gtacttcggt gncnaattat 180
 ctggttttgc gttcactgcc aacggatggg tgcaatccta tggatcacgc tgtgtgaagc 240
 caccattat 250

<210> 1132
 <211> 262
 <212> DNA
 <213> Zea mays
 <400> 1132

tcttggttg cttttgctgc ccagaagggt gttgaggttg atgctcttgc taaggcattg 60
 gctggtcaaa aggatgaggc ttacttcgca gcaaagtctg ctgctcaggc ctcgagggaaa 120
 tcctcacccc gtgtgaccaa tgaagaagtc cagaaggctg ctgctgctct caagggctct 180
 gaccaccgcc gtgggaccaa cgttagtgt agattggatg cccagcagaa gaagcttaac 240
 ctccccatcc ttcccaccac ta 262

<210> 1133
 <211> 269
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1133

gctgctcagg cctcgaggaa atcctcacc cgtgtgacca atgaagaagt ccagaaggct 60
 gctgctgctc tcaagggtc tgaccaccgc cgtgcgacca acgttagtgc tagattggat 120
 gccagcaga agaagcttaa cctccccatc cttcccacca ctacaatcgg ttcgttcna 180
 caaacgcttg agctcaggag ggtccgccgt gagtacaagg caaaaaagat ctctgaggag 240
 gaatacgtca ctgccatcaa ggaggaaat 269

<210> 1134
 <211> 269
 <212> DNA
 <213> Zea mays

<400> 1134

cgccgctgcg ccgtctcctc cgctcccgtc gtccggaaag atggcgtccc acattgttgg 60
 ataccctcgc atgggccccca agaggaggct caagtgttgc cttgagtctt tctgggatgg 120
 gaagagcacc gctgaggatc tggagaagggt tgctaccgac ctacaggcca gtatctggaa 180
 gcagatggct gatgctggga tcaagtacat ccccagcaac accttctcgt actatgacca 240
 ggtccttgac accactgcca tgctcggcg 269

<210> 1135
 <211> 299
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1135

gcgatcaaga aggaagtcga ggatcttgag gctggtggta ttcaggttat ccaaatcgac 60
 gaggctgcac tgagagaagg gctgccgntc cgcaaggctg agcatgcatt ctacttggac 120
 tgggctgtcc actccttcag aattaccaac tgcgagatcc aggacaccac ccagatccac 180
 acccacatgt gctantccaa cttcaacgac atcatccact cgatcatcga catggacgng 240

gacgtgatna ccattgagaa ntcgggtccg anggggnagct gctctcngtg ttcngggag 299

<210> 1136

<211> 276

<212> DNA

<213> Zea mays

<400> 1136

ctcaccccgt gtgaccaatg aagaagtcca gaaggctgct gctgctctca agggctctga 60

ccaccgccgt gggaccaacg ttagtgctag attggatgcc cagcagaaga agcttaacct 120

ccccatcctt cccaccacta caatcgggtc gttcccacaa accgttgagc tcaggagggt 180

ccgccgtgag tacaaggcaa aaaagatctc tgaggaggaa tacgtcactg ccatcaagga 240

ggaaatcaac aaggtcgtta agcttcaaga agagct 276

<210> 1137

<211> 257

<212> DNA

<213> Zea mays

<400> 1137

ccaactgcga gatccaggac accacccaga tccacaccca catgtgctac tccaacttca 60

acgacatcat ccactcgatc atcgacatgg acgcggacgt gatcaccatc gagaactcgc 120

ggtccgacga gaagctgctc tccgtgttcc gtgagggtgt caagtacggc gcggggcatcg 180

gccccggtgt ctacgacatc cactccccca ggatcccgtc ggccgaggag atcgccgacc 240

gcatcgacaa gatgctg 257

<210> 1138

<211> 275

<212> DNA

<213> Zea mays

<400> 1138

gcttacttcg cagcaaattg tgctgctcag gcctcgagga aatcctcacc ccgtgtgacc 60

aatgaagaag tccagaaggc tgctgctgct ctcaagggtc ctgaccaccg ccgtgggacc 120

aacgttagtg ctagattgga tgcccagcag aagaagctta acctcccat ccttcccacc 180

actacaatcg gttcgttccc acaaaccgtt gagctcagga gggtcgccg tgagtacaag 240

gcaaaaaaaga tctctgagga ggaatacgtc actgc 275

<210> 1139

<211> 295

<212> DNA

<213> Zea mays

<400> 1139

agatggcaca gagcatgacc cctcgtccca tgaagggaat gttgactggt ccggtcacia 60

tcctgaactg gtcattcgtc aggaacgacc agcctagggt tgagacatgc taccaaatag 120

ctcttgcaat caaaaaggag gttgaggatc ttgaggctgc tggatttcag gtgatccaga 180

tcgatgaggc agctctaagg gagggctctgc cactacgcaa gtcagagcat gcattctacc 240

tggactgggc tgtccactct ttcaggatca ccaactgcgg agtccaggac accac 295

<210> 1140

<211> 316

<212> DNA

<213> Zea mays

<400> 1140

gcattctctg ctgcatacgc agaacttgaa tctgtacttt ctggattgaa tgtgcttggt 60

gagacttact ttgctgatgt tcctgctgag tcctacaaga ccctaacatc cctgagcagt 120

gtgactgctt atggttttga tcttgtccgt ggaacccaaa ctcttgggct tgtcacgagt 180

gctggtttcc ctgctggaaa gtacctcttt gctgggtgttg tggatggacg caacatctgg 240

gctgatgata ttgctacatc tctcagcact ctccagtctc ttgaggctgt tgttggaag 300

gacaagcttg tcgtat 316

<210> 1141

<211> 445

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1141

ccactcttgt cctcgacctt gattctgaca aattggctgc attctctgct gcatacgcag 60

aacttgaatc tgtactttct ggattgaatg tgcttggtga gacttacttt gctgatgttc 120

ctgctgagtc ctacaagacc ctaacatctc tgagcagtg gactgcctat ggttttgatc 180
 ttgtccgtgg aacccaaaact cttgggcttg tcacgagtgc tggtttccct gctggaaagt 240
 acctctttgc tgggtgttgat gatggacgca acatctgggc tgatgatctt gctacatctc 300
 taacactctt cagtctcttg aggctgttgt tgggaangac aagcttgtcg atcaacttnc 360
 tgctcgctca tgcacaccgn tgtggatctt gngaaccaga ctnagcttga cagcagatna 420
 atctggcttg ctttgcctgc anaag 445

<210> 1142

<211> 301

<212> DNA

<213> Zea mays

<400> 1142

gccaagacgg ttgttgaggt tgatgctctt gctaaggcat tggctggtca aaaggatgag 60
 gcttacttcg cagcaaatgc tgcagctcag gcctcgagga aatcctcacc ccgtgtgacc 120
 aatgaagaag tccagaaggc tgctgctgct ctcaagggt ctgaccaccg ccgtgctgacc 180
 aacgttagtg ctagattgga tgcccagcag aagaagctta acctcccat cttcccacca 240
 tacaatcggg tcgttccac aaaccgttga gtcaggagg gtccgccgtg agtacaaggc 300
 a 301

<210> 1143

<211> 277

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1143

gtggtattca ggttatccaa atcgacgagg ctgcactgag agaagggctg ccgctccgca 60
 aggctgagca tgcattctac ttggactggg ctgtccactc cttcagaatc accaactgctg 120
 agatccagga caccaccng atccacaccc acatgtgcta ctccaacttc aacgacatca 180
 tccactcgat catcgacatg gacgcggacg tgatcaccat cgagaatcgc ggtccgacga 240
 gaagctgctc tccgtgttcc gtgaggtgtc aagtacg 277

<210> 1144

<211> 281

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <400> 1144
 cgccgctgcg ccgtctcctc cgctcccgtc gtccggaaag atggcgtccc acattgttgg 60
 ataccctcgc atgggccccca agagggagct caagtttgca cttgagtctt tctgggatgg 120
 gaagagcacc gctgaggatc tggagaangt tgctaccgac ctcagggcca gtatctggaa 180
 gcagatggct gatgctggga tcaagtacat ccccagcaac actttctcgt actatgacca 240
 ggtcctttga caccactgcc atgctcggcg ctgtccccga a 281

<210> 1145
 <211> 247
 <212> DNA
 <213> Zea mays
 <400> 1145
 gccgtgctac cactgttgct gctagattgg atgctcagca gaaaaagctc aaccttcctg 60
 tccttcccac aaccacaatt ggttcattcc ctcagactgt ggaactcagg agggtcgctc 120
 gtgagtacaa ggcaaagaag atctccgagg aggaatacat cagtgccatc aaggaagaaa 180
 tcagcaaggt tgtcaagatc caagaggagc ttgacattga tgtgcttggt catggagagc 240
 cagagag 247

<210> 1146
 <211> 268
 <212> DNA
 <213> Zea mays
 <400> 1146
 tgctgactgg ccagtcaca atcctcaact ggtccttcgt ccggaatgac cagccgaggt 60
 ttgagacttg ctaccagatc gctcttgcca tcaagaagga agtcgaggat cttgaggctg 120
 gtggtattca ggttatccaa atcgacgagg ctgcactgag agaagggctg ccgctccgca 180
 aggctgagca tgcattctac ttggactggg ctgtccactc cttcagaatt accaactgcg 240
 agatccagga caccacccag atccacac 268

<210> 1147

<211> 290
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1147

cggnacggtg gcnacctatc atcgccgctg cgccgtctcc tccgctcccg tcgtccggaa 60
 agatggcgctc ccacattggt ggataccctc gnntggggccc caagagggag ctcaagtttg 120
 cacttgagtc tttctgggat ggaagagca ccgctgagga tctggagaag gttgctaccg 180
 acctcagggc cagtatctgg aagcagatgg ctgatgctgg gatcaagtac atccccagca 240
 acactttctc gtactatgac caggctcctg acaccactgc catgctcggc 290

<210> 1148
 <211> 269
 <212> DNA
 <213> Zea mays

<400> 1148
 caaggagatc atcgcccagg gtgacaaacg aggaggcca gaaggctgca gctgctttga 60
 ggggatctga ccaccgccgt tctaccactg tttctgctag attggatgct cagcagaaaa 120
 agctcaacct tcctgtcctt cccacaacca caattgggtc attccctcag actgtggaac 180
 tcaggagggg tcgccgtgaa tacaaggcaa agaagatcac cgaggacgaa tacatcagtg 240
 ccatcaagga agaaatcagc aaggttgtc 269

<210> 1149
 <211> 280
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1149

caagaagagc ttgacatnna tgtntctgtn catngcgagc ctgagagaaa cgatatgggt 60
 gagnacntcg gtgagcagct cnccgggttt gcgttcacng ccaatggctg ggtgcagtct 120
 tatgggtcaa ggtgcgtcaa gcctccgata atctacgggt acgtgagcng ccccaacccc 180
 atgaccgttt tcnggtcgaa gacngcgag agcatgacgt ctcgccaat gaaggggatg 240
 ctgangggccc agtcacaatc ctcaacnggt ccttcgtccg 280

<210> 1150

<211> 323

<212> DNA

<213> Zea mays

<400> 1150

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gagaactcgc ggtccgacga gaagctgctc tccgtgttcc gtgaggggtgt caagtacggc 60
gcgggcatcg gccccggtgt ctacgacatc cactcccccga ggatcccgtc ggccgaggag 120
atcgccgacc gcatcgacaa gatgctggcc gtgctggaca ccaacatcct ctgggtgaac 180
cccgaactgcg gcctcaagac ccgcaagtac acggagggtca agcccgccct gaccaacatg 240
gtctccgctg ctaagtcatt cgcacccagc tcgccagcgc caagtgagca ctttttttgc 300
ctttttcgtt tccgaggagg ggt 323
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<210> 1151

<211> 325

<212> DNA

<213> Zea mays

<400> 1151

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caccacccac atctcagttc accccggcgt cgtcctcttc ccccggcgct actctcccgc 60
tccacgttcc aaaggaaaga tggcgtccca tattgttggg taccctcgca tgggccccaa 120
gagagagctc aagtttgcct tggagtcctt ctgggatggg aagagcagcg ccgatgattt 180
agagaaaagt gcctctgacc tcaggctctag catctggaag caaatgtcag aagctgggat 240
caagtacatt ccagcaaca ctttctcgta ctatgaccag gtccttgata ccacggccat 300
gcttggtgtg tcccagagcg ctact 325
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<210> 1152

<211> 272

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1152

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ggacgtggac ttcgcatggg ccccaagagg gagctcaagt ttgcacttga gtcantctgg 60
gatgggaaga gcaccgctga ggatctggag aaggttgcta ccgacctcag ggccagtatc 120
tggangcaga tggctgatgc tgggatcaag tacatcccca gcaacacctt ctcgtactat 180
```


gaccagggtcc ttgacaccac tgccatgctc ggcgctgtcc ccgaacgcta ctcatggact 240
ggaggagaga ttgggtttga cacctacttc tc 272

<210> 1153
<211> 232
<212> DNA
<213> Zea mays

<400> 1153

gggctgtcca ctcttcaga atcaccaact gcgagatcca ggacaccacc cagatccaca 60
cccacatgtg ctactccaac ttcaacgaca tcatccactc gatcatcgac atggacgcgg 120
acgtgatcac catcgagaac tcgcggtccg acgagaagct gctctccgtg ttccgtgagg 180
gtgtcaagta cggcgcgggc atcggccccg gtgtctacga catccactcc cc 232

<210> 1154
<211> 285
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 1154

atcgacgagg ctgcactgag agaagggctg ccgctccgca aggctgagca tgcattctac 60
ttggactggg ctgtccactc cttcagaatc accaactgcg aaatccagga caccaccag 120
atccacaccc acatgtgcta ctccacttca acgacatcat ccaactcgatt nccgacatgg 180
acgcggacgt gatcaccatc gagaaactcg cgtccgacga gaagctgctc tccgtgttcc 240
gtgaggtgtc aagtacggcg cgggcatcgg ccccggtgtc tacga 285

<210> 1155
<211> 327
<212> DNA
<213> Zea mays

<400> 1155

cccggctctga cgagaagcta ctgtccgtct tccgtgaggg tgtgaagtac ggagctggca 60
ttggccctgg tgtctacgac atccacttct cctaggattc cctccaccga ggagatcgca 120
gaccgcgtcg agaagatgct cgccgtgctc gacaccaaca tcctctgggt gaaccctgac 180

tgtggtctca agacacgcaa gtacacggag gtcaagcccc ccctgaccaa catggtctcg 240
gccaccaagc tcattccgcac ccagcttgcc agcgcgaaat gagtcgtttg atagtccatg 300
gtctgatagc gcggaatgag ccagttt 327

<210> 1156

<211> 284

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1156

cgtgatcacc attgaganct cgcggtccga cgagaagctg ctctccgtgt tccgcgaggn 60
gcgtcaagta cggcgcgggc atcggccccg gtgtctacna catccactcc cccaggatcc 120
cgtcggctga ggagatcgcc gaccgcatcg acaagatgct ggcggtgctg gacaccaaca 180
tcctctgggt gaacccccgac tgcggcctca agaccgcaa gtacacggag gtcaagcccc 240
ccctgaccaa catggtctcc gccgctaagc tcattccgcac ccag 284

<210> 1157

<211> 293

<212> DNA

<213> Zea mays

<400> 1157

gtcttgggct tgcttttgct gcccagaagg ttgttgaggt tgatgctctt gctaaggcat 60
tgggctggtc aaaaggatga ggcttacttc gcagcaaatg ctgctgctca ggcctcgagg 120
aatcctcac cccgtgtgac caatgaagaa gtccagaagg ctgctgctgc tctcaagggc 180
tctgaccacc gccgtgggac caacgttagt gctagattgg atgccagca gaagaagctt 240
aacctcccca tccttccac cactacaatc ggttcgttcc cacaaccgt tga 293

<210> 1158

<211> 309

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1158

cgccgctgcg ccgtctctc cgctcccgtc gtccggaaag atggcgnccc acattgttgg 60

ataccctcgc atgggccccca agaggggagct caagtttgca cttgagtcctt tctgggatgg 120
gaagggcacc gctgaggatc tggagaaggt tgctaccgac ctcagggcca gtatctggaa 180
gcagatggct gatgctggga tcaagtacat ccccagaanc actttctcgt actatgacca 240
agtcttgaca ccatgccatg ctcggcgctg tccccgaacg ttactcatgg actggaggag 300
agatggatt 309

<210> 1159
<211> 462
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 1159

cgtgcggtgn tccgcgaggg cgtcaagtac ggcgcnngca tcggccccgg tgtctacgac 60
ntccaactccc ccaggatccc gtcggctgag gagatcgccg accgcatcga caagatgctg 120
gcggtgctgg acaccaacat cctctgggtg aaccccgact gcggcctcaa gacccgcaag 180
tacacggagg tcaagcccg cctgaccaac atggtctccg ccgctaagct catccgcacc 240
cagctcgcca gcgccaagtg agcacctttt ttttgccctt ttcgtttccg aggagggccg 300
tcgtcgatgc caatttggtt ccaataaaca gggcttgctg ccgccgttct gttgtactcc 360
gtctgtggtt aggttaagta gttttcttga tctcgcccc acgcggtacc tgntttacta 420
ctctctggtt ggtgggttct gaagcaaagt tnnccgttta ct 462

<210> 1160
<211> 231
<212> DNA
<213> Zea mays

<400> 1160

ggctgcactg agagaagggc tgccgctccg caaggctgag catgcattct acttggactg 60
ggctgtccac tccttcagaa tcaccaactg cgagatccag gacaccaccc agatccacac 120
ccacatgtgc tactccaact tcaacgacat catccactcg atcatcgaca tggacgcgga 180
cgtgatcacc atcgagaact cgcggtccga cgagaagctg ctctccgtgt t 231

<210> 1161
<211> 275

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 1161

 gttgactggg cccgtcacaa tcctganctg gtcattcgtc aggaacgacc agcctagggt 60
 tgagacatgc taccaaatac ctcttgcaat caaaaaggag gttgaggatc ttgaggcnnc 120
 nggtattcag gtgatccaga tcgatgaggc agctctaagg gaggggtctgc cactacgcaa 180
 gtcagagcat gcattctacc tggactgggc tgtccactct ttcaggatca ccaactgcgg 240
 agtccaggac accacccaga tccacaccca catgt 275

<210> 1162
 <211> 290
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 1162

 gagagattgg atttgacacc tacttctcca tggccagggg caacgccact gttcctgcta 60
 tggagatgac caagtgggtt gacaccaact accactttan tgtccctgga nttgggcca 120
 aacaccaagt tctcctatgc ttctcacaag gctgttaacg aatataagga ggctaaggcg 180
 ctccgtgttg ataccgtgcc agtacttggt ggaccagtct cgtacctgtt gctctcaaag 240
 cctgccaaag gtgtggagaa gggattcnct cttctttccc ttcttagcag 290

<210> 1163
 <211> 342
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 1163

 cngtgacgtg agccgcccc accccatgac cgttttctgg tcgaagacgg cgcagagcat 60
 gacgtctcng ccaatgaaag gngatgctga ctggcccagt ncacaatcct caactgggtcc 120
 ttcgtccgga atgaccagcc gaggtttgag acttgetacc agatcgctct tgcgatcaag 180
 aaggaagtcg aggatctcga ggctgggtgt attcagggtta tccaaatcga cgaggctgca 240
 ctgagagaag ggctgccgct ccgcaaggct gagcatgcat ctacttggac tgggctgtcc 300

atccttcaga atcaccaatg cgnagaccag gacaccaccc ag 342

<210> 1164
 <211> 264
 <212> DNA
 <213> Zea mays

<400> 1164

aaccccatga ccgttttctg gtcgaagagg cacagagcat gacgtctcgc ccaatgaagg 60
 ggatgctgac tggcccagtc acaatcctca actggtcctt cgtccggaat gaccagccga 120
 ggtttgagac ttgctaccag atcgctcttg cgatcaagaa ggaagtcgag gatcttgagg 180
 ctggtggtat tcaggttatc caaatcgacg aggtgtgact gagagaaggg ctgccgctcc 240
 gcaaggctga gcatgcattc tact 264

<210> 1165
 <211> 298
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1165

gtccagaagg ctgcagctgc tttgagggga tctgaccacc gccgttctac cactgtttct 60
 gctagattgg atgctcagca gacaaagctc aaccttnctg tccttccac aaccacaatt 120
 gnttcattcc ctgagactgt ggaactcagg agggttcgcc gtgaatacaa ggcaaagaag 180
 atcaccgagg acgaaaaanat cagtgccatc aaggaagaaa ttcagcaagg ttgtcaagat 240
 ccaagaggag ntgacattga tgtgcttggt catggagagc cagagagaat gacatggt 298

<210> 1166
 <211> 226
 <212> DNA
 <213> Zea mays

<400> 1166

gcttgacatt gatgtgcttg tgcatggaga gccagagaga aatgacatgg ttgagtactt 60
 cggtgagcaa ttatctggtt ttgcgttcac tgccaacgga tgggtgcaat cctatggatc 120
 acgctgtgtg aagccaccca ttatctacgg tgatgtcagc cggccgaacc ccatgactgt 180
 tttctggtcc aagatggcac agagcatgac ccctcgcccc atgaag 226

<210> 1167
 <211> 254
 <212> DNA
 <213> Zea mays

<400> 1167

gtccggaatg accagccgag gtttgagact tgctaccaga tcgctcttgc gatcaagaag 60
 gaagtgcagg atcttgaggc tgggtggtatt caggttatcc aaatcgacga ggctgcactg 120
 agagaagggc tgccgctccg caaggctgag catgcattct acttggactg ggctgtccac 180
 tccttcagaa ttaccaactg cgagatccag gacaccaccc agatccacac ccacatgtgc 240
 tactccaact tcaa 254

<210> 1168
 <211> 251
 <212> DNA
 <213> Zea mays

<400> 1168

ctccggtttt gcgttcaactg ccaatggctg ggtgcagtct tatgggtcaa ggtgcgtcaa 60
 gcctccgatc atctacggtg acgtgagccg cccaacccc atgaccgttt tctggtcgaa 120
 gaggcgcaga gcatgacgtc tcgcccaatg aaggggatgc tgactggccc agtcacaatc 180
 ctcaactggg ccttcgtccg gaatgaccag ccgaggtttg agacttgcta ccagatcgct 240
 cttgcgatca a 251

<210> 1169
 <211> 279
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1169

atcgccgctg cgccgtctcc tccgctcccg tcgtnccgaa agatggcgct ccacattgtt 60
 ggataccctc gcatgggccc caagaggag ctcaagtttg cacttgagtc tttctgggat 120
 gggaagagca ccgctgagga tctggagaag gttgcnacng aacttnaggg ccagtatctg 180
 gaagcagang gctgatgctg ggatcaagta catccccagc aacactttct cgtactatga 240

ccaggtcctt gacacnactg ccatgctggg gctgggtccc 279

<210> 1170

<211> 268

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1170

atgggtcaag gtgcgtcaag cctccgatca tctacggtga cgtgagcngc cccaacccca 60

tgaccgtttt ctggtcgaag aggcgagcag catgacgtct cgcccaatga aggggatgct 120

gactggccca gtcacaatcc tcaactgggc cttcggtccg aatgaccagc cgagggttga 180

gacttgctac cagatcgctc ttgcgatcaa gaaggaagtc gaggatctcg aggctggtgg 240

tattcaggtt atccaaatcg acgaggct 268

<210> 1171

<211> 90

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1171

cgtcggctga ggagatcgcc gaccgcactn acaagatgct ggcggtgctg gacaccaaca 60

tcntctgggt gaaccccgac tgcngcctca 90

<210> 1172

<211> 254

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1172

gtcctccgct cccgtcgtcc ggaaagatgg cgtcccacat tgttggatac cctcgcatgg 60

gccccaaagag ggagctcaag ttgacacttg agtctttctg ggatgggaag agcaccgctg 120

aggatctgga gaagggtgct accgacctca gggccagtat ctggaagcag atggctgatg 180

ctgggatcaa gtacatcccc agcaacacct tntcgtacta tgaccaggtc cttgacacca 240

tgccatgctc ggnt 254

<210> 1173
 <211> 251
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1173

caaacgagga ggtccagaag gctgcagctg ctttgagggg atctgaccac cgccgttcta 60
 ccactgtttc tgctagattg gatgctcagc agaaaaagct caaccttcct gtccttccca 120
 caaccacaat tggttcattc cctcagactg tggaactcag gagggttcgc cgtgaatata 180
 aggcaaagaa gatcaccgag gacgaatata tcagtgnat caaggaagaa atcagcaagg 240
 ttgtcaagat c 251

<210> 1174
 <211> 246
 <212> DNA
 <213> Zea mays

<400> 1174

ccgatgtgat cacgatcgag aactcccggg ctgacgagaa gctactgtcc gtcttccgtg 60
 aggggtgtgaa gtacggagct ggcatgggcc ctgggtgtcta cgacatccac tctcctagga 120
 ttccctccac cgaggagatc gcagaccgcg tcgagaagat gctcgccgtg ctcgacacca 180
 acatcctctg ggtgaaccct gactgtgggc tcaagacacg caagtacacg gaggtcaagc 240
 ccgccc 246

<210> 1175
 <211> 258
 <212> DNA
 <213> Zea mays

<400> 1175

gaacgatcag cctaggtttg agacatgcta ccaaatagct cttgcaataa aaaaggaggt 60
 tgaggatctt gaggtgtctg gtattcaggt gatccagatt gatgaggcag ctctaaggga 120
 gggctctgcca ctgcgcaagt cagagcatgc attctacctg gactgggctg tccactcttt 180
 cagaatcacc aactgcggag tccaggacac caccagatc cacaccata tgtgctactc 240
 caacttcaac gacatcat 258

<210> 1176
 <211> 276
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 1176

 cggacntggn nagngnaaat cctcaccctcg tgtgaccaat gaagaagtcc agaaggctgc 60
 tgctgctctc aagggtctctn aanaccgccg nngnaccaaac gttagtgcta gattggatgc 120
 ccagcagaag aagcttaacc tccccatcct tcccaccact acaatcggtt cgttcccaca 180
 aaccgttgag ctgaggagg tccgccgtga gtacaaggca aaaaagatct ctgaggagga 240
 atacgtcact gccatcaagg aggaaatcaa caaggt 276

<210> 1177
 <211> 297
 <212> DNA
 <213> Zea mays

 <400> 1177

 acgagtgtctg gtttccctgc tggaaaagtac ctctttgtctg gtgttggtga tggacgcaac 60
 atctgggctg atgatcttgc tacatctctc agcactctcc agtctcttga ggctgttggt 120
 gggaaggaca agcttgctgt atcaacttcc tgctcgtca tgcacaccgc tgtggatctt 180
 gtgaacgaga ctaagcttga cagcgagatt aagtcttggc ttgctttttg ccagaaaggt 240
 tgttgagggt gatgctcttg ctaaggcatt ggctgggcca aaagatgagc ttacttc 297

<210> 1178
 <211> 283
 <212> DNA
 <213> Zea mays

 <400> 1178

 ggaggctaag gcgctcgggtg ttgataccgt gccagtactt gttggaccag tctcgtaacct 60
 gttgctctca aagcctgcc aagggtgtga gaagggattc cctcttcttt cccttcttag 120
 cagcatcctc ccagtctaca aggaggtcat tgctgagttg aaggcagctg gggcttcatg 180
 gattcagttt gatgagccca ctcttgtcct cgaccttgat tctgacaaat tggctgcatt 240
 ctctgctgca tacgcagaac ttgaatctgt actttctgga ttg 283

<210> 1179

<211> 84

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1179

ancttctngt actatgacca ggtccttgan accagtncca tgctcggcgc tgtccccgaa 60

cgctaccatg gactggacga gaga 84

<210> 1180

<211> 315

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1180

gtttgatgag cccactcttg tcctcgacct tgattctgac aaattggctg cattctctgc 60

tgcatacgca gaacttgaat ctgtactttc tggattgaat gtgcttggtg agacttactt 120

tgctgatgtt cctgctgagt cctacaagnc cctaaccatcc ctgagcagtg tgactgctta 180

tggttttgat cttgtccgtg gaacccaaac tcttgggctt gtcacgagtg ctggtttccc 240

tgctggaaaag tacctctttg ctgggtgttg ggatggacgc aacatctggg ctgatgatct 300

tgctacatct ctcag 315

<210> 1181

<211> 267

<212> DNA

<213> Zea mays

<400> 1181

agccgccccca accccatgac cgttttctgg tcgaagaggc gcagagcatg acgtctcgcc 60

caatgaaggg gatgctgact ggcccagtca caatcctcaa ctggtccttc gtccggaatg 120

accagccgag gtttgagact tgctaccaga tcgctcttgc gatcaagaag gaagtcgagg 180

atctcgaggc tgggtggtatt cagggtatcc aaatcgacga ggctgcactg agagaagggc 240

tgccgtccgc aaggctgagc atgcatt 267

<210> 1182

<211> 249

<212> DNA

<213> Zea mays

<400> 1182

tgtgaagtac ggagctggca ttggccctgg tgtctacgac atccactctc ctaggattcc 60
ctccacagag gagatcgag accgcgtcga gaagatgctc gccgtgctcg acaccaacat 120
cctctgggtg aaccctgact gtggtctcaa gacacgcaag tacacggagg tcaagcccgc 180
cctgaccaac atggtctcgg ccaccaagct catccgcacc cagcttgcca gcgcgaaatg 240
aggtcgttt 249

<210> 1183

<211> 259

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1183

ctcacctatc atcgccgctg cgccgtctcc tccgtccccg tcgtccggaa agatggcgctc 60
ccacattgtt ggataccctc gcatgggccc caagagggng ctcaagtttg cacttgagtc 120
tttctgggat gggaagagca ccgctgagga tctggagaag gttgctaccg acctcagggc 180
cagtatctgg aagcagatgg ctgatgctgg gatcaagtac atccccagca aactttctc 240
gtactatgac caggtcctt 259

<210> 1184

<211> 296

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1184

ctaccaaata gctcttgcaa tcaaaaagga ggttgaggat cttgangctg ctggtattca 60
ggtgatccag atcgatgagg cagctctaag ggagggctctg cactacgca agtcagagca 120
tgcatctac ctggactggg ctgtccactc tttcaggatc accaactgcg gagtccagga 180
caccaccag atccacaccc acatgtgcta ctccaacttc aacgacatca tccactccat 240
ccatcgacat gggatgccga tgtgatcacg atcgagaact cccggtctga ngagaa 296

<210> 1185
 <211> 218
 <212> DNA
 <213> Zea mays

<400> 1185

aggctgcact gagagaaggg ctgccgctcc gcaaggctga gcatgcattc tacttggact 60
 gggctgtcca ctcccttcaga atcaccaact gcgagatcca ggacaccacc cagatccaca 120
 cccacatgtg ctactccaac ttcaacgaca tcatccactc gatcatcgac atggacgcgg 180
 acgtgatcac catcgagaac tcgcggtccg acgagaag 218

<210> 1186
 <211> 261
 <212> DNA
 <213> Zea mays

<400> 1186

ctcctcacct atcatcgccg ctgcgcgctc tcctccgctc ccgtcgtccg gaaagatggc 60
 gtcccacatt gttggatacc ctgcgatggg ccccaagagg gagctcaagt ttgcacttga 120
 gtctttcttg gatgggaaga gcaccgctga ggatctggag aagggttgcta ccgacctcag 180
 ggccagtatc tggaagcaga tggctgatgc tgggatcaag tacatcccca gcaacacttt 240
 ctcgtactat gaccagggtcc t 261

<210> 1187
 <211> 282
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1187

gcgtcccaca ttgttggata ccctcgcatg ggccccaaaga gggagctcaa gtttgcactt 60
 gagtctttct gggatgggaa gagcacgct gaggatctgg agaagggttgc taccgacctc 120
 agggccagta tctggaagca gatggctgat gctgggatca agtacatccc cagcaacact 180
 ttctcgtact atgaccaggc ccttgacaac atgccatgct cggcgtgtcc ccgaacgtta 240
 ctcatggatn gaggagagat ggattgacaa ctattctcca tg 282

<210> 1188
 <211> 298
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1188

gtgcgtcaag cctccgatca tctacggtga cgtgagccgc cccaacccca tgaccntttt 60
 ctgggtcgaag aggcacagag catgacgtct cgcccaatga aggggatgct gactggccca 120
 gtcacaatcc tcaatggtcc ttcggtccgga atgaccagcc gaggtttgag acttgctacc 180
 agatcgctct tgcgatcaag aaggaagtcg aggatcttga ggctgggtggg attcagggtta 240
 tccaaatcga cgagggtgcc actgagagaa gggctgccgt ccgcaaggct gagcatca 298

<210> 1189
 <211> 228
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1189

cccagatcca caccacatg tgctactcca acttcaacga catcatccac tncgatcatc 60
 gacatggacg cggacgtgat caccatcgag aactcgcggt ccgacgagaa gctgctctcc 120
 gtgttccgtg aggggtgtcaa gtacggcgcg ggcacggcc ccggtgtcta cgacatccac 180
 tccccagga tcccgtcggc cgaggagatc gccgaccgca tcgacaag 228

<210> 1190
 <211> 280
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1190

cacaattggt tcattccctc agactgtgga actcaggagg gttccgccgt gaatacaagg 60
 caaagaagat caccgaggac gaatacatca gtgccatcaa ggaagaaatc agcaaggncg 120
 tcaagatcca agaggagctt gacattgatg tgcttgtgca tggagagcca gagagaaatg 180
 acatggttga gtacttcggt gagcaattat ctggtttgcg ttactgcca acggatgggt 240
 gcaatcctat ggatcacgct tgtgtgaagc caccattat 280

<210> 1191
 <211> 290
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1191

ttgggaagga caagcttgtc gtatcaactt cctgctcgct catgcacacc gctgtggatc 60
 ttgtgaacga gactaagctt gacagcgaga ttaagtctng gcttgctttt gctgcccaga 120
 aggttggtga ggttgatgct cttgctaagg cattggctgg tcaaaaggat gaggcttact 180
 tcgcagcaaa tgctgctgct caggcctcga ggaaatcctc accccgtgtg accatgaaga 240
 agtccagaag gctgctgctg ctctcaaggg tctgaccacc gccgtgggac 290

<210> 1192
 <211> 243
 <212> DNA
 <213> Zea mays

<400> 1192

gaccagccga ggtttgagac ttgctaccag atcgctcttg cgatcaagaa ggaagtcgag 60
 gatcttgagg ctggtgggtat tcaggttatc caaatcgacg aggctgcact gagagaaggg 120
 ctgccgctcc gcaaggctga gcatgcattc tacttggact gggctgtcca ctccctcaga 180
 attaccaact gcgagatcca ggacaccacc cagatccaca cccacatgtg ctactccaat 240
 tca 243

<210> 1193
 <211> 223
 <212> DNA
 <213> Zea mays

<400> 1193

atggacgcag atgtgatcac catcgagaac tcccggtcg acgagaagct actgtccgtg 60
 ttccgcgagg gtgtgaagta cggagctgga atcgggtccag gtgtctacga catccactcg 120
 cccaggatcc cctccaccga ggagatcgcg gaccgcgtca acaagatgct cgccgtgctc 180
 gacaccaaca tcctctgggt gaaccctgac tgcggtctca aga 223

<210> 1194
 <211> 246
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1194

gctgactggc ccagtcacaa tcctcaactg gtccttcgtc cggaatgacc agccgaggtt 60
 tgagacttgc taccagatcg ctcttgcgat caagaaggaa gtcgaggatc tcgaggctgg 120
 tggatttcag gttatccaaa tcgacgaggc tgcactgaga gaagggtctgc cgctccgcaa 180
 ggctgagcat gcattctact tggactgggc tgtccactcc ttnagantca ccacngggag 240
 atccng 246

<210> 1195
 <211> 232
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1195

tgggtggtatt cangatatcc aaatcgacga ngctgcactg agagaagggc tgccgctccg 60
 caaggctgan catgcattct acttggaactn ggctgtccac tccttcagaa ttaccaactg 120
 cgagatccag gacaccaccc agatccacac ccacatgtgc tactccaact tcaacgacat 180
 catccactcg atcatcgaca tggacgcgga cgtgatcacc attgagaact cg 232

<210> 1196
 <211> 248
 <212> DNA
 <213> Zea mays

<400> 1196

gaaatcaaca aggtcgttaa gctccaagaa gagcttgaca ttgatgtgct tgtgcatggc 60
 gagcctgaga gaaacgatat gggtgagtac ttcggtgagc agctctccgg ttttgcggtc 120
 actgccaatg gctgggtgca gtcttatggg tcaagggtgcg tcaagcctcc gatcatctac 180
 ggtgacgtga gccgccccaa ccccatgacc gttttctggt cgaagaggcg cagagcatga 240
 cgtctcgc 248

<210> 1197

<211> 300

<212> DNA

<213> Zea mays

<400> 1197

gtggatggac gcaacatctg ggctgatgat cttgctacat ctctcagcac tctccagtct 60

cttgaggctg ttgttgggaa ggacaagctt gtcgtatcaa cttcctgctc gtcctatgcac 120

accgctgtgg atcttgtgaa cgagactaag cttgacagcg agattaagtc ttggcttgct 180

tttgctgccc agaaggttgt tgaggttgat gctcttgcta aggcatggc tgggtcaaaag 240

gatgaggcta cttcgcagca aatgctgctg ctcaggcctc gaggaaatcc tcaccccgctg 300

<210> 1198

<211> 233

<212> DNA

<213> Zea mays

<400> 1198

ggtgatccag atcgatgagg cagctctaag ggagggtctg ccactacgca agtcagagca 60

tgcattctac ctggactggg ctgtccactc tttcaggatc accaactgcg gagtccagga 120

caccacccag atccacaccc acatgtgcta ctccaacttc aacgacatca tccactccat 180

catcgacatg gatgccgatg tgatcacgat cgagaatccc ggtctgacga gaa 233

<210> 1199

<211> 256

<212> DNA

<213> Zea mays

<400> 1199

gggaacgacc agccgagggtt tgagacttgc taccagatcg ctcttgcgat caagaaggaa 60

gtcgaggatt cttggaggct ggtggtattc aggttatcca aatcgacgag gctgcactga 120

gagaagggct gccgctccgc aaggctgagc atgcattcta cttggactgg gctgtccact 180

ccttcagaat taccaactgc gagatccagg acaccaccca gatccacacc cacatgtgct 240

actccaactt caacga 256

<210> 1200

<211> 297
 <212> DNA
 <213> Zea mays

 <400> 1200

 gtgaggggtgt gaagtacgga gctggggcatt ggccctgggtg tctacgacat ccactctcct 60
 aggattccct ccaccgagga gatcgcagac cgcgtcgaga agatgctcgc cgtgctcgac 120
 accaacatcc tctgggtgaa ccctgactgt ggtctcaaga cacgcaagta cacggaggtc 180
 aagcccggcc tgaccaacat ggtctcggcc accaagctca tccgcaccca gcttgccagc 240
 gcgaaatgag tcgtttgata gctccatggg ctgatagcgc ggaatgagcc agtttgt 297

<210> 1201
 <211> 260
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 1201

 cacctatcat cgccgctgcg ccgtctcctc cgtcccgtc gtccggaaaag atggcgctccc 60
 acattgttgg ataccctcgc atggggcccca agaggagct caagtttgca cttgagtctt 120
 tctgggatgg gaagagcacc gctgaggatc tggagaaggt tgctaccgac ctcagggccca 180
 gtatctggaa gcagatggct gatgctggga tcaagtacat cccagcaac ancttctcgt 240
 actatgacca ggtcttgaca 260

<210> 1202
 <211> 261
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 1202

 gttccgcgag ggcgtcaagt acggcgcggg catcggcccc ggtgtctacg acatccactc 60
 cccaggatc ccgtcggtg aggagatcgc cgaccgcac gacaagatgc tggcggtgct 120
 ggacaccaac atcctctggg tgaacccga ctgcggcctc aagacncgca agaccacgg 180
 aggtcaagcc cncctgaac aacatggtct ccgcgctaa gctcatncgc acccagntcg 240
 ccagcgccaa gtgagcactt t 261

<210> 1203

<211> 246

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1203

cccttgccaa ggctttggca ggccaaaagg atgaggtcta ctttgcagcc aatgctgctg 60

ctnnggcctc aaggagatca tcgcccaggg tgacaaacga ggaggtccag aaggctgcag 120

ctgctttgag gggatctgac caccgccgtt ctaccactgt ttctgctaga ttggatgctc 180

agcagaaaaa gctcaacctt cctgtccttc ccacaaccac aattgggttca ttccctcaga 240

ctgtgg 246

<210> 1204

<211> 266

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1204

gggacntggt ccagtgggtga ncgcggacgt gatcaccatt ganaactcgc ggtccgaagn 60

gaagctgctc tccgtgttcc gcnagggcgt caagtacggc gcgggcatcg gccccgggtgt 120

ctacgacatc cactccccca ggatcccgtc ggctgaggat atcgccgacc gcatcgacaa 180

gatgctggcg gtgctggaca ccaacatcct ctgggtgaac cccgactgcg gcctcaagac 240

ccncaagtac acggaggtcn agcccc 266

<210> 1205

<211> 302

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1205

cccccaacccc atgaccgttt tcnggtcgaa gacggcacag agcatgacgt ctcgcccaat 60

gaaggggatg ctgactggcc cagtcacaat cctcaactgg tccttcgtcc ggaatgacca 120

gccgangttt gagacttgct accagatcgc tcttgcgatc aagaaggaag tcgaggatct 180

tgagtntggt ggtattcagg ttatccaaat cgacgaggct gactgagan aagggcnnnn 240

cgctccgcaa ggctgagcat gcattctaata tgganggntc atccttcaga ttacactgng 300
ag 302

<210> 1206
<211> 319
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 1206

gcagtcttat ggggtcaaggt gcgtcaagcc tccgatcatc tacgggtgacg tgagccgccc 60
caaccccatg accgttttct gggtgaagac ggcgcagagc atgacgtctc gcccaatgaa 120
ggggatgctg actggcccag tcacaatcct caactgggtcc ttcgtccgga atgaccagcc 180
gaggtttgag acttgctacc agatcgctct tgcgatcaag aaggaatcga ggactcgagg 240
ctggtggtat cagttaccaa ncgagagtgc ntgagagaag gtgcgtcgca gntgacnnat 300
ctattgatgg tgtcatctc 319

<210> 1207
<211> 299
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 1207

aacccaaact cttgggcttg tcacgagtgc tggtttccct gctggaaagt acctctttgc 60
tggtgttgtg gatggacgca acatctgggc tgatgatctt gctacatctc tcagcantct 120
ccagtctctt gaggctgttg ttgggaagga caagcttgtc gtatcaactt cctgctcgct 180
catgcacacc gctgtggatc ttgtgaacga gactaagctt gacagcgaga ttaagtcttg 240
gcttgctttt gctgcccaga angttgttga gttgatgtct tgctaaaggc attgctggt 299

<210> 1208
<211> 315
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 1208

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antncttggc ctgnntttgct gcccagaagg ttgttgaggt tgatgctctt gctaaggcat 120
tggctgggtca aaaggatgag gcttacttcg cagcaaatgc tgcngtcagg cctcgaggaa 180
atcctcacc cgtgtgacca atgaagaagt ccagaaggct gntgctgctc tcaagggctc 240
tgaccaccgc cgtgggacca acgttagtgc tagatggatg cccagcngtn agnagcttaa 300
cctccccanc cttcc 315

<210> 1209

<211> 421

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1209

cccactcttt cgtgggtnag gacaagcttg tcntatcaag ttcctggggg gctcatgcac 60
accgntgtgg atcttgtgaa cgagactaat cttgacagcg agattaagtc ttggcttgct 120
tttgctgccc agaaggttgt tgaggttgat gctcttgcta aggcatggc tggcaaaag 180
gatgaggctt acttcgcagc aaatgctgct gctcaggcct cgaggaaatc tcaccccgtn 240
tgaccaatga anaantccan aaggctgctg ctgctctcaa gggctctgac caccggcgtn 300
ggaccaacgt tagtgctaga ttggatgccc acaaangaaa cttaacctcc cattcttcca 360
ccacttcaat tggttcgtnn ccacaaacc gttgagctca agaaggtccg ccgtgagtac 420
a 421

<210> 1210

<211> 261

<212> DNA

<213> Zea mays

<400> 1210

catcggcccc ggtgtctacg acatccactc cccaggatc ccgtcggccg aggagatcgc 60
cgaccgcac gacaagatgc tggccgtgct ggacaccaac atcctctggg tgaacccga 120
ctgcggcctc aagacccgca agtacacgga ggtcaagccc gccctgacca acatggtctc 180
cgctgctaag ctcatctgca cccagctcgc cagcgccaag tgagcacctt tttttgcctt 240
tttcgtttcc gaggagggcg t 261

<210> 1211

<211> 239

<212> DNA

<213> Zea mays

<400> 1211

gggaaggaca agcttgctgt atcaacttcc tgctcgctca tgcacaccgc tgtggatctt 60

gtgaacgaga ctaagcttga cagcgagatt aagtcttggc ttgcttttgc tgcccagaag 120

gttggtgagg ttgatgctct tgctaaggca ttggctggtc aaaaggatga ggcttacttc 180

gcagcaaatt ctgctgctca ggcctcgagg aaatcctcac cccgtgtgac caatgaaga 239

<210> 1212

<211> 236

<212> DNA

<213> Zea mays

<400> 1212

atcgccgctg cgccgtctcc tccgctcccg tcgtccggaa agatggcgtc ccacattggt 60

ggataccctc gcatggggcc caagagggag ctcaagtttg cacttgagtc tttctgggat 120

gggaagagca ccgctgagga tctggagaag gttgctaccg acctcagggc cagtatctgg 180

aagcagatgg ctgatgctgg gatcaagtac atccccagca acactttctc gtacta 236

<210> 1213

<211> 276

<212> DNA

<213> Zea mays

<400> 1213

cccacatctc agttcacccc ggcgtcgtcc tcttcccccg gcgctactct cccgctccac 60

gttccaaagg aaagatggcg tcccatattg ttggataccc tcgcatgggc cccaagagag 120

agctcaagtt tgccttgag tctttctggg atgggaagag cagcgccgat gatttagaga 180

aagttgcctc tgacctcagg tctagcatct ggaagcaaatt gtcagaagct gggatcaagt 240

acattcccag caacaccttc tcgtactatg accagg 276

<210> 1214

<211> 231

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 1214

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 tctggtcgaa gacggcgag agcatgacgt ctcgcccaat gaaggggatg ctgantggcc 120
 cagtcacaat cctcaactgg tccttcgtcc ggaatgacca gccgaggttt gaganttgcn 180
 ancagatcgc tcttgcgac aagaaggaag tngaggatct cgangctagt g 231

 <210> 1215
 <211> 284
 <212> DNA
 <213> Zea mays

 <400> 1215

 ctcttgtcct cgaccttgat tctgacaaat tggctgcatt ctctgctgca tacgcagaac 60
 ttgaatctgt actttctgga ttgaatgtgc ttgttgagac ttactttgct gatgttcctg 120
 ctgagtccta caagacccta acatctctga gcagtgtgac tgcttatggt tttgatcttg 180
 tccgtggaac ccaaactctt gggcttgta cgagtgtggt tttccctgct ggaaagtacc 240
 tctttgctgg tgttggtgat ggacgcaaca tctgggctga tgat 284

 <210> 1216
 <211> 280
 <212> DNA
 <213> Zea mays

 <400> 1216

 ccaaactctt gggcttgta cgagtgtggt tttccctgct ggaaagtacc tctttgctgg 60
 tgttggtgat ggacgcaaca tctgggctga tgatcttgct acatctctca gcaactctca 120
 gtctcttgag gctgttggtt ggaaggacaa gcttgctgta tcaacttctt gctcgctcat 180
 gcacaccgct gtggatcttg tgaacgagac taagcttgac agcgagatta agtcttggct 240
 gcttttgctg ccagaaggt tgttgaggtt gatgctcttg 280

 <210> 1217
 <211> 283
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1217

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cgtactatga ncaggtcctt gtgcaccagt gccatgctcg gcgctgtccc cgcacgctac 60
tcatggactg gaggagagat tgggtttgac acctacttct ccatggccag gggcaacgcc 120
actgtccctg ctatggagat gaccaagtgg tttagacacca actaccactt tattgtccct 180
gaattggggc caaacaccaa gttctcctat gcttctcaca aggctgttaa cgaatataag 240
gaggctaggc gctcggtggt gatacgtgcc agtattgntg gac 283
```

<210> 1218

<211> 337

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1218

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agggattccc tcttctttcn cttcttanca gcacccctccc agtctacaag gnngtcattg 60
ctgagttnaa ggcagctggg gcttcatgga ttcagtttga tgagcccact cttgncctcg 120
ancttgattc tgacaaattg gctgcattct ctgctgcata cgcagaactt gaatctgtac 180
tttctggatt gaatgtgctt gttgagactt actttgctga tgntcctgct gantcctaca 240
agaccctaac atctctgagc agtgtgactg cttatgggtt tgatctgtcc gtngaaccca 300
aaccttgggc ttgtcacgag tgctggntcc ctgctgg 337
```

<210> 1219

<211> 446

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1219

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gagctggaat cgggtccaggt gtctacgact tccactcgcc caggatcccc tccaccgagg 60
agatcgcgga ccgctcaac aagatgctcg ccgtgctgga caccaacatc ctctgggtga 120
accctgactg cgggtctcaag acacgcaagt acacggaggt gaagcctgcc ctgaccaaca 180
tggtctccgc caccaagctc atccgcaccc agctcggcag cgcgaaatga gtcagatttg 240
gtagatccat ggtttggtga acacaaaagc cagcaggggtc atttgtttcg aataatttgg 300
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gtccttactc ctgttccatg gcgttaggtt aagcctcatt ggtgttggtg gggtagcggc 360
gttacgtgtc cgtgttctaa agtttggaaat gtgtgtttct cttttttggt ngggggttgn 420
gtgccttttg gtatataaac agaaat 446

<210> 1220
<211> 228
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 1220

ggcaaagaag atctccgagg aggaatacat cagtgccatc aangaagaaa tcagcaaggt 60
tgtcaagntc caagaggagc ttgacnttga tgtgcttgtg catggagagc cagaaagaan 120
tgacatgggt gagtacttcg gtgagcantt atctggtttt gcantcactg ccaacggntg 180
ggtgcnatct ttatggatca cgttgtgtga agccaccntt atctatgg 228

<210> 1221
<211> 232
<212> DNA
<213> Zea mays

<400> 1221

caacttcctg ctgcgtcatg cacaccgctg tggatcttgt gaacgagact aagcttgaca 60
gcgagattaa gtcttggcctt gcttttgctg ccagaaggt tgttgagggt gatgctcttg 120
ctaaggcatt ggctgggtcaa aaggatgagg ctacttcgc agcaaagtgt gctgctcagg 180
cctcgaggaa atcctcaccc cgtgtgacca atgaagaagt ccagaagggt gc 232

<210> 1222
<211> 217
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 1222

aggatcttna ggctgntgggt attcaggnga tccagattga tgaggcagct ctaaggagg 60
gtctgccact gcgcaagtca gagcatgcat tctacctgga ctgggctgtc cactctttca 120
gaatcacnaa ctgcggagtc caggacacca ccagatcca naccatattg tgctactcca 180

acttcaacga catcatccac tccatcatcg acatgga 217

<210> 1223

<211> 277

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1223

ggcgctcggg gttgataccg tgccagtact tgttggacca gtctcgtacc tgttgctctc 60

aaagcccgcc aagggtgtgg agaagggatt ccctcttctt tcccttctta gcagcatcct 120

cccagtctac aaggaggtca ttgctgagtt gaaggcagct ggggcttcat ggattcagtt 180

tgatgagccc actcttgtcc tcgaccttga ttctgacaaa ttggctgcat tctctgctgc 240

atacgcagaa cttgaatctg tattntgant tnatggg 277

<210> 1224

<211> 206

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1224

aagaagatca ccgaggacga atacatcagt gccatcaagg aagaaatcag caaggttgtc 60

aagatccaag aggagcttga cattgatgtg cttgtgcatg gagagccaga gagaaatgac 120

atgggtgagt acttcgggtga gcaattatct ggttttgcgt tcaactgcaa cggatgggtg 180

caatcctatg gntcacgctg tgtgac 206

<210> 1225

<211> 354

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1225

atatggttga gtacttcngt naggcagctct gcggttatgc gttcactgcc aatggctggg 60

tgcagctctta tgggtcaagg tgngtcaagc ctgccgattc atctactgna acgtgtatgc 120

cgccaccaac nccatgaccg ttttctgggtc gnnnacggcg cagagcatga cgtctcgccc 180

aatgaatggg atgntgactn gncagtcac antcctcaac tngtcctncg tcggaatgac 240
cagccgaggt ntganacttg ctaccagatc gctctngcga tnaagnnggn agtcgaggtc 300
tcgacgtggn gtatcaggtg accaantcga cnagctgcat gagagagagc gcgc 354

<210> 1226

<211> 228

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1226

gcagctctcc ggttttgcgt tcaactgccaa tggctgggtg cagtcttatg ggtcaaggtg 60
cgtcaagcct ccgatcatct acggtgacgt gagccgcccc aaccccatga ccgttttctg 120
gtcgaagagg cgcagagcat gacgtctcgc ccaatgaagg ggatgctgac tggcccagtc 180
acaatcctca actggctcctt cgtccggaat naccagccga ggttttat 228

<210> 1227

<211> 260

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1227

cgnacntggg tntncgtcag gaacgaccag cctaggtttg agacatgcta ccaaatagct 60
cttgcaatca aaaaggaggt tgaggatctt gangctgctg gtaantcagg tgatccagat 120
cgatgaggca gctctaaggg agggctctgcc actacgcaag tcagagcatg cattctacct 180
ggactgggct gtccactctt tcaggatcac caactgcgga gtccaggaca ccaccagat 240
ccacaccac atgtgctact 260

<210> 1228

<211> 276

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1228

cgtactatga ccaggctcctt gacaccaent gccatgctcg gcgctgtccc cgaacgctac 60
tcatggactg gaggagagat tgggtttgac acctacttct ccatggccag gggcaacgcc 120

actgtccctg ctatggagat gaccaagtgg tttgacacca actaccactt tattgtccct 180
gaattggggcc caaacaccaa gttctcctat gcttctcana aggctgttaa ngaatataag 240
aggctaaggc gctcgggtgtt aanaccggcc aatant 276

<210> 1229
<211> 256
<212> DNA
<213> Zea mays

<400> 1229

gtacttggtg gaccagtctc gtacctgttg ctctcaaagc ctgccaaagg tgtggagaag 60
ggattccctc ttctttccct tcttagcagc atcctcccag tctacaagga ggtcattgct 120
gagttgaagg cagctggggc ttcattggatt cagtttgatg agcccactct tgtcctcgac 180
cttgattctg acaaattggc tgcattctct gctgcatacg cagaacttga atctgtactt 240
tctggattga atgtgc 256

<210> 1230
<211> 257
<212> DNA
<213> Zea mays

<400> 1230

ggtgcgtcaa gcctccgata atctacgggtg acgtgagccg ccccaaacc catgaccgtt 60
ttctggtcga agaggcacag agcatgacgt ctgcccaat gaaggggatg ctgactggcc 120
cagtcacaat cctcaactgg tccttcgtcc ggaatgacca gccgagggtt gagacttgct 180
accagatcgc tcttgcgata aagaaggaag tcgaggatct tgaggctggt ggtattcagg 240
ttatccaaat cgacgag 257

<210> 1231
<211> 344
<212> DNA
<213> Zea mays

<400> 1231

gggattccct cttctttccc ttcttagcag catcctcca gtctacaagg aggtcattgc 60
tgagttgaag gcagctgggg ctccatggat tcagtttgat gagccactc ttgtcctcga 120

ccttgattct gacaaattgg ctgcattctc tgctgcatac gcagaacttg aatctgtact 180
 ttctggattg aatgtgcttg ttgagactta ctttgctgat gttcctgctg agtcctacaa 240
 gaccctaaca tccctgagca gtgtgactgc ttatggtttg acttgtccgt ggaacccaaa 300
 ctcttgggtt gtcacgagtg ctggtttccc tgctggaagt actc 344

<210> 1232
 <211> 278
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1232

gtcccacatt gttggatacc ctgcgatggg ccccaagagg gagcnccaag tttgcacttg 60
 agtctttctg ggatgggaag annaccgctg aggatctgga gaagggttct accgacctca 120
 gggccagtat ctggaagcag atggnn gatg ctggggatca agtacatccc cagcaacact 180
 ttctcgtact atgaccaggt ccttgacacc actgccatgc tcggcgctgt ccccgaaact 240
 tactcatgga ctggaggaga gattggattt gacactac 278

<210> 1233
 <211> 249
 <212> DNA
 <213> Zea mays

<400> 1233

cttcctgctc gctcatgcac accgctgtgg atcttgtgaa cgagactaag cttgacagcg 60
 agattaagtc ttggcttgct tttgctgccc agaagggttg tgagggttgat gctcttgcta 120
 aggcatggc tgggtcaaaag gatgaggctt actcgcagca aatgctgcag ctcaggcctc 180
 gaggaaatcc tcaccccgctg tgaccaatga agaagtccag aaggctgctg ctgctctcaa 240
 gggctctga 249

<210> 1234
 <211> 295
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1234

accacccaca tctcagttca ncccggcgtc gtccctcttcc cccgnggcta ctctcccgt 60
ccacgttcca aaggantgct ggcgtcccat attgttggat accntcgcat gggccccaag 120
agagagctca agtttgcctt ggagtccttc tgggatggga agagcagcgc cgatgattta 180
gagaaagttg cctctgacct caggtctagc atctggacng ccnatgtcag angctgggnt 240
cnagtacatt cccagcaaca ctttctcgta ctatgaccag gtccttgata ccagg 295

<210> 1235

<211> 267

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1235

aacccaaact cttgggcttg tccacgagtg ctggtttccc tgctggaaaag tacctctttg 60
ctggtgttgt ggatggacgc aacatctggg ctgatgatct tgctacatct ctcagcactc 120
tccagtctct tgaggctgtt gttgggaagg acaagcttgt cgtatcaact tcctgctcgc 180
tnntgcacac cgctgtggat cttgtgaacg agactaagct tgacagcgag attaagctctg 240
gctgcttttg ctgcccagaa ggttggt 267

<210> 1236

<211> 292

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1236

attggccctg gtgtctacga catccactct cctaggattc cctccaccga ggagatcgca 60
gaccgcgtcg agaagatgct cgccgtgctg gacaccaaca tcctctgggt gaaccctgac 120
tgtggtctca agacacgcaa gtacacggag gtcaagcccg ccctgaccaa catggtctcg 180
gccancaagc tcatccgcac ccagcttgcc aacgcgaaat gagtcgtttg atagctccat 240
ggtttgatag cgcggaatga gccagttggt ttgaataatt tgggtgntac cc 292

<210> 1237

<211> 217

<212> DNA

<213> Zea mays

<223> unsure at all n locations
 <400> 1237

ccaagaanan cttgacattg atgtgcttgt gcatggcgag cctnagagaa acgatatggt 60
 tgagtacttc ngtgagcagc tctccggttt tgcgttcact gccaatggct ggggtgcagtc 120
 ttatgggtca aggtncgtca ngcctccgnt catctacggt gacgtgagcc gccccaaacc 180
 catgaccgtn ttctggtcgn agactgcgca gagcatg 217

<210> 1238
 <211> 456
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1238

gtacggcgcg ggcacgcncc ccggtgtctn tnntatccac tccccagga tcccgtcggg 60
 ngaggntatc gccgaccgca tcgacaagat gctggcggtg ctggacacca acatcctctg 120
 ggtgaacccc gactgcggcc tcaagacccg caagtacacg gaggtcaagc ccgccctgac 180
 caacatggtc tccgccgcta agctcatccn caccagctc gccagcgcca agtgagcacc 240
 ttttttttgc ctttttcggt tccgaggagg gcgtcgtcna ntgccaattt ggttncaata 300
 aacagggctn tgcccgccgt tctgttgtag tccgtctgtg gttagggttag tagttatctt 360
 gatctgcnn ncacgccggt acctntttac tactctctgt ttggtgggtt tctgaagcaa 420
 gttgcccntt tacttgatn gtaaaaaccc aatngt 456

<210> 1239
 <211> 289
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1239

cgccgctgcg ccgtctctc ngctnccgtc gtccggaaag atggcgtncc acattgttgg 60
 ataccctcnc atgggccccca agaggagct caagtttgca cttgagtctt tctgggatgg 120
 gaagagcacc gctgaggatc tggagaaggt tgctaccgac ctcaaggcca gtatctggaa 180
 gcagatggct gatgctggga tcaagtacat cccagcaac atttctcgta ctatgaccag 240

tcttgacacc atgccatgtc ggcgctgtcc ccgaaggtag tcatggatg 289

<210> 1240
 <211> 274
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1240

ggaggctaag gcgctcgggtg ttgataccgt gccagttactt gttggaccan tctcgtacct 60
 gttgctctca aagcctgccca aggggtgtgga gaagggattc cctcttcttt cccttcttag 120
 cagcatcctc ccagtctaca aggaggtcat tgctgagttg aaggcagctg gggcttcatg 180
 gattcagttt gatgagccca ctcttgctct ngacctgaat tcggnacaaa tnggctgcat 240
 tctcngcngc atangcngaa nttgaatctg tact 274

<210> 1241
 <211> 268
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1241

atcgcngctg cgcgctctcc tccgctccccg tcgtccggaa agatggcgtc ccacattgtt 60
 ggataccctc gcatgggncc cnaganggag ctcaagtttg cacttgagtc tttctgggat 120
 gggcnagagca acgctgagga tctggagaag gttgctaccg acntcagggc cagtatccgg 180
 aagcanatgg cngatnctgg gatcaagtac atccccagca anacnttctc gnantatgac 240
 caggtcttga naccatgccca tggctcgg 268

<210> 1242
 <211> 260
 <212> DNA
 <213> Zea mays

<400> 1242

acgacatcca ctccccagc atcccgctcg ctgaggagat cgccgaccgc atcgacaaga 60
 tgctggcggt gctggacacc aacatcctct ggggtgaaccc cgactgcggc ctcaagaccc 120
 gcaagtacac ggagggtcaag cccgccctga ccaacatggt ctccgccgct aagctcatcc 180

gcacccagct cgccagcgcc aagtgagcac cttttttttg ccttttttcgt ttccgaggag 240
ggcgtcgtcg atgccaattt 260

<210> 1243
<211> 280
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 1243

ctcgcggtcc gacgagaagc tgctctccgt gtnccgcgag ggcgnccaag tacggcgcgg 60
gcacgcggccc cgggtgtctac gacatccact cccccaggat cccgtcggct gaggagatcg 120
ccgaccgcat cgacaagatg ctggngtgct ggacaccaac atcctctggg tgaacccccga 180
ctgcggcctc aagacccgca agtacacgga ggtcaagccc gccctgacca ncatggtctc 240
ngccggtaag ctnatccgca cccagctcgc naggccaagt 280

<210> 1244
<211> 305
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 1244

ccactcntgt cctcgacctt gattctgaca aattggctgc attctctgct gcatacgag 60
aacttgaatc tgtactttct ggattgaatg tgcttggtga gacttacttt gctgatgttc 120
ctgctgagtc ctacaagacc ctaacanctc tgagcagtgt gactgctnat ggttttgatc 180
ttgtccgtgg aacccaaact ctnggggctt gtcacgagtg ctgggtttcc ctgctggaaa 240
gtacctcttt gctggtgttg tggatggacn caacagctgg ggtngatgnt cttncnnacn 300
tcgcc 305

<210> 1245
<211> 198
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 1245

cgcccccaacc ccatgaccgt tttctggtcg aagacggcgc agagcatgac gtctcgccca 60

atgangggga tgctgactgg ccagtcaca atcctcaact ggtccttcgt ccggaatgac 120
cagccgaggt ttgagacttg ctaccagatc gctcttgcca tcaagaagga agtcgaggat 180
ctcgaggctg gtggtatt 198

<210> 1246
<211> 297
<212> DNA
<213> Zea mays

<400> 1246

ctcccagtct acaaggaggt cattgctgag ttgaaggcag ctggggcttc atggattcag 60
tttgatgagc ccactcttgt cctcgacctt gattctgaca aattggctgc attctctgct 120
gcatacgagc aacttgaatc tgtacttctg gattgaatgt gctgttgaga cttactttgc 180
tgatgttcct gctgagtcct acaagacctt aacatctctg agcagtgatga ctgcctatgg 240
ttttgatctt gtccgtggaa cccaaactct tgggcttgct acgagtgctg gtttccc 297

<210> 1247
<211> 286
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 1247

tccantcgat catnggnatg gacgcggatg tnattcacca ttgagaactc gcgggtccgac 60
gagaagctgc tctccgtggt ccgcgagggc gtcaagtaag gcgcggggcat cggccccggt 120
gtctacgaca tccactcnnc caggatccccg tcgggtgagg agatcgccga ccgcacgac 180
aagatgtgng gtgctggana cnaacatcct ctnggtgaac cccgactgcg gcctcaagan 240
ccgcaagtac acngaggtca aancggngctg accaacangt ctccgt 286

<210> 1248
<211> 343
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 1248

cngtgacgtg agccgccccca accccatgac cgttttctgg tcgaagacgg gcgcagagca 60

tgacgtctca gcccaatgaa nggggnntg actggccaag tcacaatncc tcaactggtc 120
cttcgtccgg aatgaccagc cgaggtttga gacttgctac cagatcgctc ttgcgatcaa 180
gaaggaagtc gaggatctcg aggctgggtg tattcagggt atccaaatcg acgaggctgc 240
actgagagaa gggctgccgc tccgcaaggc tgnagcatgc atcttacttg gatgggctgt 300
tccattcctt cagaatcacc aatgcgaatc caggacacca ccc 343

<210> 1249
<211> 210
<212> DNA
<213> Zea mays

<400> 1249

gagacatgct accaaatagc tcttgcaatc aaaaaggagg ttgaggatct tgaggctgct 60
ggatttcagg tgatccagat cgatgaggca gctctaaggg agggctctgcc actacgcaag 120
tcagagcatg cattctacct ggactgggct gtccactctt tcaggatcac caactgcgga 180
gtccaggaca ccaccagat ccacaccac 210

<210> 1250
<211> 206
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 1250

gcttttgctg ccagaaggt tggtgaggt gatgctcttg ctaaggcatt ggctggtaa 60
aaggatgagg cttaacttcg agcaaagtgc gcagctcagg cctcgaggaa atcctcacc 120
cgtgtgacca atgaagaagt ccagaaggct gctgctgctc tcaagggtc tgaccaccgc 180
cgtgcgacca acgttagtgc tagntt 206

<210> 1251
<211> 223
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 1251

gaccagccga ggtttgagac ttgctaccag atcgctcttg cgatnaagaa ggaagtcgag 60

gatcttgagg ctggtggtat tcaggttatc caaatcgacg aggctgcact gagagaagg 120
 ntgccgctcc gcaaggctga tcatgcattc tacttggact gggctgtcca ntccttcagn 180
 attaccaact gcgagatcca ggacaccacc cagatccaca ccc 223

<210> 1252
 <211> 186
 <212> DNA
 <213> Zea mays

<400> 1252

acaaaccgtt gagctcagga ggggccgccg tgagtacaag gcaaaaaaga tctctgagga 60
 ggaatacgtc actgccatca aggaggaaat caacaaggtc gttaagcttc aagaagagct 120
 tgacattgat gtgcttgtgc atggcgagcc tgagagaaac gatatggttg agtacttcgg 180
 tgagca 186

<210> 1253
 <211> 238
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1253

cnagatggcg tcccatattg ttggataccc tcgcatgggc cccaagaggg agctgcaagt 60
 ttgcnttgga gtactttctg ggatgggnag agcagcgccg aggatttgga gaangttgnc 120
 actgacctga ggtctagcat ctggnagcaa atgtcagang ctgggatcaa gtacattccc 180
 aggcaatcac cttctcgtac tacgaccagg ttcttgatac cacggccatg cttggcgc 238

<210> 1254
 <211> 277
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1254

gcccttgcca aggctttggc aggccaaaag gatgaggtct actttgcagc caatgctgct 60
 gcttcaggcc tcaaggagat catcgcccag ggtgacaaac gaggaggtcc agaaggctgc 120
 agctgctttg aggggatctg accaccgccg ttctaccact gtttctgcta gattggatgc 180

tcagcagaan aagctcaacc ttctgtcct tcccacaacc acaattgggt cattccctca 240
gactgtggaa tcaggagggt tcgccgtgaa tacaagg 277

<210> 1255
<211> 287
<212> DNA
<213> Zea mays

<400> 1255

cctgagacag tcagacgtcc cgtgctcgtc atcaccaccc acatctcagt tcaccccggc 60
gtcgtcctct tccccggcg ctactctccc gctccacgtt ccaaaggaaa gatggcgctc 120
catattgttg gataccctcg catgggcccc aagagagagc tcaagtttgc cttggagtct 180
ttctgggatg ggaagagcag cgccgatgat ttagagaaaag ttgcctctga cctcaggtct 240
agcatctgga agcaaatgtc agaagctggg atcaagtaca ttcccag 287

<210> 1256
<211> 219
<212> DNA
<213> Zea mays

<400> 1256

gggcccaaac accaagttct cctatgcttc tcacaaggct gttaacgaat ataaggaggc 60
taaggcgctc ggtgttgata ccgtgccagt acttgttgga ccagtctcgt acctgttgct 120
ctcaaagcct gccaaaggtg tggagaaggg attccctctt ctttcccttc ttagcagcat 180
cctcccagtc tacaaggagg tcattgctga gttgaaggc 219

<210> 1257
<211> 269
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 1257

gtccggaatg accagccgag gtttgagact tgctaccaga tcgctcttgc gatcaagaag 60
gaagtcgagg atctcgaggc tgggtgtatt caggttatcc aaatcgacga ggctgcactg 120
agagaagggc tgccgctccg caaggctgag catgcattct acttggaactg ggctgtccac 180

tccttcagaa tcaccaactg cggagatcca ggacaccacc catatccaaa cccanattgtg 240
ctattcnanc ttnaacgaca tcatccact 269

<210> 1258
<211> 213
<212> DNA
<213> Zea mays

<400> 1258

caacttcctg ctcgctcatg cacaccgctg tggatcttgt gaacgagact aagcttgaca 60
gcgagattaa gtcttggtt gcttttgctg cccagaaggt tggtgagggt gatgctcttg 120
ctaaggcatt ggctggtaaa aaggatgagg ctacttcgc agcaaattgt gctgctcagg 180
cctcgaggaa atcctcacc cgtgtgacca atg 213

<210> 1259
<211> 269
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 1259

atttggttgc cctggccggt acnagtccaa gaattcccgg gtcttcacct atcatcgccg 60
ctgcgcgctc tcttcgctc ccgtcgtccg gaaagatggc gtcccacatt gttggatacc 120
ctcgcattgg ccccaagagg gagctcaagt ttgcacttga gtctttcttg gatgggaaga 180
gcaccgctga ggatctggag aagggttgcta ccgacctcag ggccagtatc tggaagcaga 240
tggtgatgc tgggatcaag tacatcccc 269

<210> 1260
<211> 266
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 1260

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cttcgtccgg aatgaccagc cgagggttga gacttgctac cagatcgctc ttgcgatcaa 120
gaaggaagtt cgaggatctt naggctgggt gtattcaggt tatccaaatc cgacgaggct 180

gcactgagna gaagggctgc cgctccgcaa ggccgagcat gccatctact tgnactgggc 240
 tgtccactcc ttcagattac caactg 266

<210> 1261
 <211> 443
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1261

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 gaggagatcg ccgaccgcat cgacaagatg ctggcggtgc tggacaccaa catcctctgg 120
 gtgaaccccg actgcggcct caagacccgc aagtacacgg aggtcaagcc cgctgacca 180
 acatgggtctc cgccgctaag ctcatccgca cccagctcgc cagcgccaag tgagcacctt 240
 atntttgcnt ntttngtttc cgaggagggc gtngtcgatg ccaattngng ttcaataaac 300
 agggctgtgc ccgcccgttc tgtngactnc gctgtgggtt aagttagtan tttcttngat 360
 ctgcnccca cgcggtacct ggtttactac tctctgtttg gtggttcttg aagcaagtta 420
 cnnctgtac ttggatagaa aaa 443

<210> 1262
 <211> 258
 <212> DNA
 <213> Zea mays

<400> 1262

ggcagctggg gcttcatgga ttcagtttga tgagcccact cttgtcctcg accttgattc 60
 tgacaaattg gctgcattct ctgctgcata cgcagaactt gaatctgtac tttctggatt 120
 gaatgtgctt gttgagactt actttgctga tgttcctgct gagtcctaca agaccctaac 180
 atctctgagc agtgtgactg cttatggttt tgatcttgtc cgtggaaccc aaactcttgg 240
 gcttgtcacg agtgctgg 258

<210> 1263
 <211> 275
 <212> DNA
 <213> Zea mays

<400> 1263

ggcagctggg gcttcatgga ttcagtttga tgagcccact cttgtcctcg accttgattc 60
 tgacaaattg gctgcattct ctgctgcata cgcagaactt gaatctgtac tttctggatt 120
 gaatgtgctt gttgagactt actttgctga tgttcctgct gagtcctaca agaccctaac 180
 atctctgagc agtgtgactg cttatggttt tgatcttgtc cgtggaaccc aaactcttgg 240
 gcttgtcacg agtgcctggt tccctgctgg aaagt 275

<210> 1264
 <211> 253
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1264

ctacgacatc cactctccta ggattccctc cacagaggag atcncagacc gcgtcgagaa 60
 gatgctcgcc gtgctcgaca ccaacatcct ctgggtgaac cctgactgtg gtctcaagac 120
 acgcaagtac acggagggtca agccccccct gaccaacatg gtctcggcca ccaagctcgc 180
 ncgcacccag cttgccagcg cgaaatgagg tcgtttgata gctccatggt ctgatagcgc 240
 ggaatgagcc agt 253

<210> 1265
 <211> 211
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1265

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 tgcccagcag aagaagctta acctcccat ccttcccacc actacaatcg gttcgttccc 120
 acaaaccgtt gagctcagga gggtcgcgcg tgagtacaag gcaaaaaaga tctctgagga 180
 agaatacgtc actggccatc naggaggaaa t 211

<210> 1266
 <211> 297
 <212> DNA
 <213> Zea mays

<400> 1266

gctgagttga aggcagctgg ggcttcatgg attcagtttg atgagccac tttgtcctc 60
gaccttgatt ctgacaaatt ggctgcattc tctgctgcat acgcagaact tgaatctgta 120
ctttctggat tgaatgtgct gttgagactt actttgctga tgttcctgct gagtcctaca 180
agaccctaac atctctgagc agtgtgactg cctatggttt tgatcttgct cgtggaaccc 240
aaactcttgg gcttgtcacg agtgctgggt tccctgctgg aaagtactct tgctgggt 297

<210> 1267
<211> 267
<212> DNA
<213> Zea mays

<400> 1267

atccctgagc agtgtgactg cttatggttt tgatcttgct cgtggaaccc aaactcttgg 60
gcttgtcacg agtgctgggt tccctgctgg aaagtacctc tttgctgggt ttgtggatgg 120
acgcaacatc tgggctgatg atcttgctac atctctcagc actctccagt ctcttgaggg 180
tgttgttggg aaggacaagc ttgtcgtatc aacttcctgc tcgctcatgc acaccgctgt 240
ggatcttggt aacgagacta agcttga 267

<210> 1268
<211> 224
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 1268

ccgctgcgcc gtctccnccg cncctgctgt ccggancnga tggcgtccca cattgttga 60
tacnctcgca tggnccccaa nagggagctc aagtttgac ttnagtcttt cngggatngg 120
aagancacng ctgaggatcn cgagaaggtn gcnaccgacc tcagggccag tatctggaag 180
cagatngctg annctgggat caantacatn cccagcaaca cttt 224

<210> 1269
<211> 212
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 1269

nnnnnnnnnn nnnnnngaca tggacgcgga cgtgatcacc atcgagaact cgcggtccga 60
cgagaagctg ctctccgtgt tccgtgaggg tgtcaagtac ggcgcgggca tcggccccgg 120
tgtctacgac atccactccc ccaggatccc gtcggccgag gagatcgccg accgcatcga 180
caagatgctg gccgtgctgg acaccaacat ca 212

<210> 1270
<211> 292
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<400> 1270

cgagangctg ctctccgtgt tcngcgnngg cgtcaagtac ggngcgggcn tcggcctcgg 60
tgtctacgac atcnnetccc ccaggntncc gtcngetgng gagatcgccg accgcatcga 120
caagatgctg gcggtgctgg acaccaacat cctctgggtg aaccccgact cggcctcaag 180
acccgcaagt acacgngngt caagcccgcc ctgaccaaca tggntcgcgc gctnagtcac 240
ccgacccagc tcgnnagccg cgangtgagc acttttttgc cttttcgttc cg 292

<210> 1271
<211> 287
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<400> 1271

angcaacatc tgggctgatg atcttgctac atctctcagc actctccagt ctcttgaggc 60
tgttggtggg aaggacaagc ttgtcgtatc aacttcctgc tcgctcatgc acaccgctgt 120
ggatcttggtg aacgagacta agcttgacag cgagattaag tcttggttg cttttgctgc 180
ccagaagggtt gttgaggtga tgctcntgct aaggcattgg ctgggtcaaaa ggatgaggnt 240
acttcgcagc aaatgcngca gctcaggncn cgaggaaatc ctcaccc 287

<210> 1272
<211> 265
<212> DNA
<213> Zea mays
<223> unsure at all n locations

<400> 1272

tcaccaccca catctcagtt caccgccggcg tcgtcctctt ccccgggcgc tactctcng 60

ctccacgttc caaaggaaag atggcgtaen catattgntg gataccctcg catgggcccc 120

aagagagagc tcaagtttgc cttggagtct ttctgggatg ggaagagcag cgccgatgat 180

ttagagaaaag ttgcctctga cctcaggtct agcatctgga agcanatgtc agaagctggg 240

atcaagtaca ttcccagcaa cacct 265

<210> 1273

<211> 223

<212> DNA

<213> Zea mays

<400> 1273

tagcagcatc ctcccagtct acaaggaggt cattgctgag ttgaaggcag ctggggcttc 60

atggattcag tttgatgagc ccactcttgt cctcgacctt gattctgaca aattggctgc 120

attctctgct gcatacgagc aacttgaatc tgtactttct ggattgaatg tgcttgttga 180

gacttacttt gctgatgttc ctgctgagtc ctacaagacc cta 223

<210> 1274

<211> 261

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1274

ctgggatggg aagagcaccg ctgaggatct ggagaagggt gctaccgacc tacagggccca 60

gtatctggaa gcagatggct gangctggga tcaagtacat cccagcaac actttctcgt 120

actatgacca ggtccttgac accactgcca tgctcggcgc tgtccccgaa cgttactaca 180

tggactggag gagagattgg atttgacacc tacttctcca tggccagggg caagccactg 240

ttcctgctat ggagatgacc a 261

<210> 1275

<211> 283

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1275

tggtgttgtg gatggacgca acatctgggc tgatgatctt gctacatctc tcagcantnt 60
ccaggctnnt gagngctggt gttgggaatg acaagcttgt cgtatcaact tcctgctcgc 120
tcatgcacac cgctgtggat cttgtgaacg agactaagct tgacagcgag attaagtctt 180
ggcttgcttt tgctgcccag aaggttgttg aggttgatgc nctgctaagg catggctggt 240
caaaaggatg aggcttactt cgcagcaaat gctgcagctc agg 283

<210> 1276

<211> 185

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1276

gcgtcccaca ttgttgata cccnacgcat gggccccaag agggagctac aagtttgcac 60
ttgagtcttn ctgggatggg aagagcaccg ctgaggatct ggagaagggt gctaccgacc 120
tcagggccag tatctggnag cagatggctg atgctgggat caagtacatc cccagcaaca 180
ctttc 185

<210> 1277

<211> 278

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1277

tcagtttgat gagcccactc ttgtcctoga cttgattct gacanattgg ctgcaanctc 60
tgctgcatac gcagaacttg aatctgtact ttctggattg aatgtgcttg ttgagactta 120
ctttgctgat gttcctgctg agtcctacaa gaccctaaca tccctgagca gtgtgactgc 180
ttatggtttt gatcttgtcc gtggaacca aactcttggg cttgtcacga gtgctggttt 240
ccctgctgga aagtactctt tgctgggtgtt gtggatga 278

<210> 1278

<211> 276

<212> DNA

<213> Zea mays

<223> unsure at all n locations
 <400> 1278

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ccaggatccc gtcggccgag gagatcgccg accgcatcga caagatgctg gccgtgctgg   60
acaccaacat cctctgggtg aaccccgact gcggcctcaa gacccgcaag tacacggagg  120
tcaagcccg cctgacaaaa atgggtccccg ctganaagct cattcgacc cagctcgcca  180
gcgccaagtg agcacctttt ttgctttt tcgtttccga ggaggcgctc gtcgatgcca  240
tttgtttcca ataaacaggg ctccccccct gtgccg                               276
```

<210> 1279
 <211> 267
 <212> DNA
 <213> Zea mays

<400> 1279

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ggggcttcat ggattcagtt tgatgagccc actcttgctc tcgacctga ttctgacaaa   60
ttggctgcat tctctgctgc atacgcagaa cttgaatctg tactttctgg attgaatgtg  120
cttggtgaga cttactttgc tgatgttctt gctgagtcct acaagaccct aacatccctg  180
agcagtgtga ctgcttatgg ttttgatctt gtccgtggaa cccaaactct tgggcttgct  240
acgagtgtctg gtttccctgc tggaaaag                               267
```

<210> 1280
 <211> 271
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1280

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ctccatgacc gttttctggt cgaagacggc gcagagcatg acgtctcgcc caatgaaggg   60
gatgctgact ggcccagtca caatcctcaa ctggtcttcg tccggaatga ccagccgagg  120
tttganactt gctaccagat cgctcttgcg atcaagaagg aagtcgagga tctcgaggct  180
ggtggtatca gttatccaaa tcgacgaggc tgcgatgagag aagggtgccg ctccgcaagg  240
ctgagcatgc attctattgg actgggtgtc a                               271
```

<210> 1281
 <211> 188
 <212> DNA

<213> Zea mays

<400> 1281

gctgggtttcc ctgctggaaa gtacctcttt gctgggtgttg tggatggacg caacatctgg 60
gctgatgatac ttgctacatc tctcagcact ctccagtctc ttgaggctgt tgttggaag 120
gacaagcttg tcgtatcaac ttctgctcg ctcatgcaca ccgctgtgga tcttgtgaac 180
gagactaa 188

<210> 1282

<211> 284

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1282

gtcgaagagg gcgcagagca tgacgtctcg cccaatgaag gggatgctga ctggcncagt 60
cacaatcctc aactggctct tcgtccggaa tgaccagccg aggtttgaga cttgctacca 120
gatcgtctct gcgatcaaga aggaagtcga ggatctcgag gctgggtgga ttcaggttat 180
ccaanttcga cgaggctgca ctgagagaag ggctgccgct ccgnaggntn agnatgattc 240
naantgggan nggggcggcc nntcttnnag aatgnnaggn ggng 284

<210> 1283

<211> 194

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1283

cacaaccaca attggtncat tccctcagac tgtggaactc aggagggttc gccgtgaata 60
caaggcaaaa agatcaccga ggacgatacn tcagtgccat caaggaanaa tcagcaaggt 120
tgtcaagatc caagaggagc ttgacattga tgtgcttggt catggagagc cagagagana 180
tgacatgggtt gagt 194

<210> 1284

<211> 271

<212> DNA

<213> Zea mays

<400> 1284

cggtgttgat accgtgccag tacttggttg accagtctcg tacctgttgc tctcaaagcc 60

cgccaagggt gtggagaagg gattccctct tctttccctt cttagcagca tcctcccagt 120

ctaaaggagg tcattgctga gttgaaggca gctggggctt catggattca gtttgatgag 180

cccatcttgt cctcgacctt gattctgaca aattggctgc attctctgct gcatacgag 240

aacttgaatc tgtatttctg gattgaatgt g 271

<210> 1285

<211> 209

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1285

gtgctcaag cctccgatca tctacggtga cgtgagccgc cccaaccca tgaccgtttt 60

ctggtcgaag acgggcacag agcatgacgt ctgcaccaat gaaagggang ctgactggcc 120

cagtcacaat cctcaactgg tccttcgtcc ggaatgacca gccgaggttt gagacttgta 180

ccagatcgct cttgctcaa gaaggaagt 209

<210> 1286

<211> 180

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1286

cgcagagcat gacgtctcgc ccaatgaagg ggatgctgac tggcccagtc acaatcctca 60

actggtcctt cgtccggaat gaccagccga ggtttgagac ttgctaccag atcgctcttg 120

cgatcaagac ggaantcgag gntctcnagg ctngtggtat tcagggttat caaatcgacg 180

<210> 1287

<211> 200

<212> DNA

<213> Zea mays

<400> 1287

cacctatcat cgccgctgcg ccgtctcctc cgctcccgtc gtccggaaag atggcgctcc 60

acattgttgg ataccctcgc atgggccccca agagggagct caagtttgca cttgagtctt 120
tctgggatgg gaagagcacc gctgaggatc tggagaaggt tgctaccgac ctcagggcca 180
gtatctggaa gcagatggct 200

<210> 1288

<211> 324

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1288

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gcnttcaactg ccaatggctg ggtgcagtct tatgggtcaa ggtgcgtcaa gcctccgac 120
atctacggtg acgtgagccg ccccaacccc atgacgtttt ctggtcgaag acggcgcaga 180
gcatgacgtc tcgcncaatg aaggggatgc tgactggccc agtcacaatc ntcaactggt 240
cttcgtcgga acgaccagcc gaggtttgag attgctacca gatcgctctt gcgatnaaga 300
angaatcgan gatctgaagc tggc 324

<210> 1289

<211> 181

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1289

aggaaatcct caccctgtgt gnaccaatga agaagtccag aaggctgctg ctgctctcaa 60
gggctctgac caccgccgtg cgaccaacgt tagtgctaga ttggatgcc agcagaagaa 120
gcttaacctc cccatccttc ccaccactac aatcggttcg ttcccacaaa ccgttgagct 180
c 181

<210> 1290

<211> 275

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1290

caccgaggag atcgagacc gcgtcgagaa gatgctcgcc gtgctcgaca ccaacatcct 60

ctgggtgaac cctgactgtg gtctcaagac acgcaagtac acggagggtca agccccccct 120
gaccaacatg gtctcggcca ccaagctcat ccgcacccag cttgccagcg cgaaatgagt 180
cgtttgatag ctccatggtc tgatagcgcg gaatgagcca gtttgttttg aataatttgg 240
gtgttaccac ctgttccatg gtgtnagtgt taggt 275

<210> 1291
<211> 202
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 1291

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tttgctgatg ttctgtctga gtcctacaag accctaacat ccctgagcag tgtgactgct 120
tatggttttn atcttgtccg tggaacccaa actcttgggc ttgtcacgag tgctggtttc 180
cctgctggaa agtacctctt tg 202

<210> 1292
<211> 181
<212> DNA
<213> Zea mays

<400> 1292

gagctcagga ggggtccgcc gtgagtacaa ggcaaaaaag atctctgagg aggaatacgt 60
cactgccatc aaggaggaaa tcaacaaggt cgtaagctc caagaagagc ttgaacattg 120
atgtgcttgt gctggcgagc ctgagagaaa cgatatggtt gagtacttcg gtgagcagct 180
c 181

<210> 1293
<211> 242
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 1293

ccagagcgct actcttggac tggaggcgag attggcttga gcacctactt ctctatggcc 60
aggggaaatg ccactgtccc tgccatggag atgaccaagt ggtttgatac aaactaccac 120

tttattgtcc ctgaacttgg cccaagcacc aagttcacat acgctnctca caaggctgtt 180
tctgagtacn nggnnggcaaa ggggtcggcn ttgatncnat tcccatgctg ttggacanng 240
gc 242

<210> 1294
<211> 176
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 1294

acggcgcaga gcatggacgt ctgcccgaat gaaggggatg ctgactggcc cagtcacaat 60
cctcaactgg tccttcgtcc ggaatgacca gccgaggttt gagacttgct accagatngc 120
tcttgcgatg aagaaggaag tcgaggatct cgaggctggt ggtattcagg ttatcc 176

<210> 1295
<211> 228
<212> DNA
<213> Zea mays

<400> 1295

aaggggtgtgg agaagggatt ccctcttctt tcccttctta gcagcatcct cccagtctac 60
aaggagggtca ttgctgagtt gaaggcagct ggggcttcat ggattcagtt tgatgagccc 120
actcttgtcc tcgaccttga ttctgacaaa ttggctgcat tctctgctgc atacgcagaa 180
cttgaatctg tactttctgg atgaatgtgc ttgttgagac tactttgc 228

<210> 1296
<211> 312
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 1296

ccagttcacc acccacctcc cactcccagt tcaccccgtc gtcctcgngc gccaccactc 60
ctgcgtcccc cggcgtact ccccgctcc acggtccaag gaaagatggc gtcccatatt 120
gttgataacc ctgcgatggg cccaagagg gagctcaagt ttgccttgga gtctttctgg 180
gatgggaaga gcagcgccga ggatttgag aaagttgcc ctgacctgag gtctagcatc 240

tggaagcaaa tgtcagaagt gggatcaagt aattcccagc aatacttctc gtatacgnc 300
aggttttgat ac 312

<210> 1297
<211> 270
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 1297

gccaaagggg tggagaaggg attccctctt ctttccctnc ttagcagcat cctcccagtc 60
tacaangagg tcattgctga gttgaaggca gctggggctt tcatggattc agtttngatg 120
agcccactct tgtcctcgac cttgaatnct gaacaaattg gctgcattct ctgctggcnt 180
acgcagaact ngaatctgta ctntctggat tgaatgtgct tgttgagact tactttgctg 240
atgttctctgc tgagtcctac aagaccctaa 270

<210> 1298
<211> 161
<212> DNA
<213> Zea mays

<400> 1298

gggcgcgggg catcggcccc ggtgtctacg acatccactc ccccaggatc ccgtcggccg 60
aggagatcgc cgaccgcacg gacaagatgc tggccgtgct ggacaccaac atcctctggg 120
tgaaccccga ctgcggcctc aagacccgca agtacaggag g 161

<210> 1299
<211> 213
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 1299

tgacagcgag attaagtctt ggantgcttt tgctgnccca gaaggtnnt gaggttgatg 60
ctcttgctaa ggcatggct ggtcaaaagg atgaggctta cttcgagca aatgctgctg 120
ctcaggcctc gaggaaatcc tcaccccgctg tgaccaatga agaagtccag aaggctgctg 180
ctgtctcaag ggctctgacc accgccgtgg gac 213

<210> 1300

<211> 194

<212> DNA

<213> Zea mays

<400> 1300

cacctatcat cgccgctgcg ccgtctcctc cgctcccgtc gtccggaaaag atggcgtccc 60

acattgttgg ataccctcgc atgggccccca agagggagct caagtttgca cttgagtctt 120

tctgggatgg gaagagcacc gctgaggatc tggagaaggt tgctaccgac ctcaggggcca 180

gtatctggaa gaaa 194

<210> 1301

<211> 291

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1301

ctgagcagtg tgactgctta tggttntgat cnngtccgtg gaacccaaac tcttgggctt 60

gtcacgagtg ctggtttccc tgctggaaaag tacctctnng ctggtgttgt ggatggacgc 120

aacatctggg ctgatgatct tgctacatct ctcagcactc tccagtctct tgaggctgtt 180

gttgggaagg acaagcttgt cgtatcaact tcctgctcgc tcatgcacac cgctgtggga 240

gctgtggaac cgagantagc ttganaangg ggttaagtnt nggcttgntn t 291

<210> 1302

<211> 152

<212> DNA

<213> Zea mays

<400> 1302

tgatgtgctt gtgcatggcg agcctgagag aaacgatatg gttgagtact tcggtgagca 60

gctctccggt tttgcgttca ctgccaatgg ctgggtgcag tcttatgggt caaggtgcgt 120

caagcctccg atcatctacg gtgacgtgag cc 152

<210> 1303

<211> 152

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1303

ggngctgtcc actccttcag aattaccaac tgcgagancc aggacaccac ccagatccan 60
ncccacatgt gctactccaa cttcaacgac atcatccact cgatcatcga catggacgcg 120
gacgtgatca ccatngagaa ctcgngggnc gg 152

<210> 1304

<211> 468

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1304

anaacaacnc tctctttnta ataccngtnc caatacttgt tggaccaatc tcntacctgg 60
nggggggnaaa acctancaag ggtgnggaaa aagnattccc tcttctttcc cttcttaaca 120
gcatcctccc antctacaag gaggtcattg ctganttnaa ngcanctggg gcttnatgga 180
ttcagtttga tganccact cttgtcctcg accttgattc tgacaaattg gctgcattct 240
cttgctgcat atgcanaact tgaatctgta ctttcttgga ttnaatgtgc ttgttnagac 300
ttactttgct tatgttcctg ctgaantcct aaaaaaacc taacatccct taaacanngt 360
gaactgctta ttggttttta atcttttccc gnggaacca aaactnttgg gcttntcacn 420
aatgctttgg ttttccttgc ttgaaaaaan cnnnctttgt tggggtgg 468

<210> 1305

<211> 292

<212> DNA

<213> Zea mays

<400> 1305

ctggtgttgt ggatggacgc aacatctggg gctgatgatc ttgctacatc tctcagcact 60
ctccagtctc ttgaggctgt tggtgggaag gacaagcttg tccgtatcaa cttcctgctc 120
gctcatgcac accgctgtgg atcttgtgaa cgagactaag cttgacagcg agattaagtc 180
ttggctgctt ttgctgcca gaaggttgtt gaggttgatg ctctcgctaa ggcattggct 240
gggtcaaaagg atgaggctta cttcgagca aatgctgctg ctcaggcctc ga 292

<210> 1306

<211> 414

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1306

acngcgcggg catnggcccc ggtgtctacg acatnnactn ccccaggatc ccgtcggctg 60
aaggagatcg ccgaccgcat tgacaagatg ctggcgggtgc tggacaccaa catcctctgg 120
gtgaaccccg actgnggnct naaaaacccg caagtacacg gaggtcaaag ccccgncctg 180
accaacatgg tcttccgncc gctaagctca tccgcaccca gctngccagc gccaaagtga 240
cacctttttt ttgccttttt cgtttccgag gaagggcgtn gtcgatgcca atttggtttc 300
aataaacang gctgtgcccc ccggtctggt gnactccgct gngggtaagg taagaagttt 360
cttgancttg ncccangccg gnactgggta ctactntntg gtngnggttc tgag 414

<210> 1307

<211> 163

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1307

cttcccccg cgctactctc ccgctccacg ttccaaagga aagatggcgt cccatattgt 60
tggataccct cgcatgggcc ccaagagaga gctcaagttt gccttgagat ctttctggga 120
tgggaagagc agcgccgatg atttagagaa agntgnntcg gac 163

<210> 1308

<211> 233

<212> DNA

<213> Zea mays

<400> 1308

caccagttca ccacccacct cccactccca gttcaccocg tcgtcctcgg cgccaccact 60
cctcgcccc cggcgtact ccccgctcc acggtccaag gaaagatggc gtcccatatt 120
gttgataacc ctgcgatggg cccaagagg gagctcaagt ttgccttgga gtctttctgg 180
gatgggaaga gcagcgccga ggatttgag aaagttgcca ctgacctgag gtc 233

<210> 1309
 <211> 225
 <212> DNA
 <213> Zea mays

<400> 1309

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atcaccagtt caccacccac ctcccactcc cagttcaccc cgtcgtcctc ggcgccacca 60
ctctcgtcc cccggcgcta ctccccgct ccacgggtcca aggaaagatg gcgtcccata 120
ttgttggata ccctcgcatt ggcccaga gggagctcaa gtttgccttg gagtctttct 180
gggatgggaa gagcagcgcc gaggatttgg agaaagttgc cactg 225
```

<210> 1310
 <211> 303
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1310

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ccactcctcg tccccggcg ctactcccc gctccacggt ccaaggaaag atggcgccc 120
atattgttgg ataccctcgc atgggcccc agaggagct caagtttgcc ttggagtctt 180
tctgggatgg gaagagcagc gccgaggatt ggagaaagtt gccatgacct gangttancc 240
attggaagca aatgtcagaa ntgggatcaa gtacatcca gaatacttct cgtatagaca 300
ggt 303
```

<210> 1311
 <211> 293
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1311

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gtctacaagg aggtcattgc tgagttgaan gctggnggn tgctgctaag angggaaaga 60
ngagggaatc ccttcttagc agcatcctcc cagtctacna ggnggtcatt gctgagttga 120
aggcagctgg ggcttcatgg attcagtttg atgagccac tcttgtccgc gaccttgatt 180
ctgacaaatt ggctgcattc tctgctgcat acgcagaact tgaatctgta ctttctggat 240
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tgaatgtgct gttgagacta cttgctgatg ttcctgctga gtcctacaag acc 293

<210> 1312

<211> 311

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1312

cccccaacccc atgaccgttt nctggctgaa gacggcacag agcatgacgt ctcgcccattg 60

aaggggtgct gactggccca gtcacaatcc ncaactggtc cttcgtccgg aatgaccagc 120

cgaggtttga gacttgctac cagatcgtct tgcgatcaag aaggaagtcg aggatcttga 180

ggttgtgtat tcaggttatc caaatcgaga gctgcatgag agaggggtgc gctccgcaag 240

ctaagentca tccacttggg nggtttccat tctcggattn cangnagatc aaggnacacc 300

ngntcacanc c 311

<210> 1313

<211> 121

<212> DNA

<213> Zea mays

<400> 1313

gctgcccaga aggttggtga ggttgatgct cttgctaagg cattggctgg tcaaaaggat 60

gaggcttact tcgcagcaaa tgctgctgct caggcctcga ggaaatcctc accccgtgtg 120

a 121

<210> 1314

<211> 222

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1314

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cctcgtcccc cggcgtact cccccgtnc acggtccaag gaaagatggc gtcccatatt 120

gttggatacc ctcgcatggg cccaagagg gagctcaagt ttgccttgga gtctttctgg 180

gaggggaaga gcagtgccga ggattnggag aaattgcnac tg 222

<210> 1315
 <211> 190
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 1315

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 tntctggattg aatgtgcncg ttgagactta cttnctgnt gttcctgctg agtccnanaa 120
 gaccctaaca ncnengagca gtgtgactgc ntatggtttt gatcttgtcc gtggaaccca 180
 nactctnggg 190

 <210> 1316
 <211> 120
 <212> DNA
 <213> Zea mays

 <400> 1316

 gtccacatt gttggatacc ctgcatggg cccaagagg gagctcaagt ttgcacttga 60
 gtctttctgg gatgggaaga acaccgtga agatctggag aagggttgcta ccgacctcag 120

 <210> 1317
 <211> 159
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 1317

 gcttacttcg cagcanatgc tntctgcat ncctcganga natcctcacc ccgtntgacc 60
 aatgnagaag tccaaaatgc tgcngntgcn ctcaanggct atgancancg ccgngggacc 120
 aacgttagtg ctagattgga tgnccagcag aagaagctt 159

 <210> 1318
 <211> 288
 <212> DNA
 <213> Zea mays

 <400> 1318

 cgacaccaac atcctctggg tgaaccctga ctgtggtctc aagacacgca agtacacgga 60

ggtcaagccc gccctgacca acatggtctc ggccaccaag ctcacccgca cccagcttgc 120
 cagcgcgaaa tgaggctggt tgatagctcc atggtctgat agcgcggaat gagccagttg 180
 ttttgaataa tttgggtggt accccctggt ccatggtggt agtggttaggt tagcctctca 240
 ttggtgggat acgccgttac aagatgtggt ctaagtttgg agtgtgtg 288

<210> 1319

<211> 268

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1319

cnagcctnna nagnaacgnt atggttgagt actttcgggt agcagctctc cggttttgcg 60
 ttccactgcc aatggctggg tgcagtcnnt atgggtcaag gtgcgtcaag cctccgatca 120
 tgctacggtg acgnagccg ccnaacccc atgaccgttt tctcgggtcga agacggcaca 180
 gagcatgacc gtctcgccca atgaagggga tgctgactgg cccagtcaca atcctncaac 240
 tggtccttn cgtncggaaa tganccac 268

<210> 1320

<211> 118

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1320

acgacatcca ctgcccagg atccccctcca ccgaggagat cgcggaccgc gtcaacaaga 60
 tgctcgngt gctcgacacc aacatcctct ggggtgaacc tgactgcggt ctcaagac 118

<210> 1321

<211> 151

<212> DNA

<213> Zea mays

<400> 1321

gaagcaaagt tcagaagctg ggatcaagta cattcccagc aataccttct cgtactacga 60
 ccaggttctt gataccacgg ccatgcttgg cgctgtccca gagcgctact cttggactgg 120
 aggtgagatt ggctgagcac tacttctcta t 151

<210> 1322

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1322

acgacatcca ctctcctagg attccctcca ccgaggagat cgcagaccgc gtcgagaaga 60

tgctcgccgt gctcgacacc aacatcctct ggggtgaaccc tgactgtggt ctcaagacac 120

gcaagtcacg gaggtcaagc ccgccctgac caacatggtc tnggccacca agcttattcc 180

gcacccaact tgnccagcgc gaaatgaagt cgtttgatag ctcatggtct gatagcgccg 240

gaatgagcca agtggtttgn ataatttggg tgttaccccc tgntccatgg ngttagtgg 300

aaggtagcct ntnattggtg ggataccccc gttccagant nggtctaagg ttggantggg 360

tggttntctt tnggctatgg ttcttggggg atttgtgtgt ccttgggtat taacnggaat 420

tgaataccca gtcttt 436

<210> 1323

<211> 118

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1323

tnatcaccat tgagnnctcn cgggtccgacn agaagctgct ctccgtnttc cgcnaggncg 60

tcaagtacgn cncgggcacn ngcaccggtg tctacnacat ccaactcccc angatccc 118

<210> 1324

<211> 324

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1324

cgtgttccgc gagggcgtca agtacggcgc gggcatcggc cccggtgtct acgacatcca 60

ctccccagg atcccgtcgg ctgaggagtc gccgaccgca tcgacaagat gtggcgtgct 120

ggacacaaca tctctgggtg aaccccgact gcggtcgaag accgcaatac acgagtcaag 180

ccgcctgac caacatggtc tccgccgcta agtcatccgc accagtcgcc agcgccaagt 240

gagcactttt tttgcttttc gttcgaggag ggtgtgatgc aaattgttcn ataaaanggt 300
 gtgccgccgt tctgttgat cgtt 324

<210> 1325
 <211> 287
 <212> DNA
 <213> Zea mays

<400> 1325

ctctgggtga accccgactg cggcctcaag acccgcaagt acacggaggt caagcccgcc 60
 ctgaccaaca tgggtctccgc cgctaagctc atccgcaccc agctcgccag cgccaagtga 120
 gcaccttttt tttgcctttt tcgtttccga ggagggcgtc gtcgatgcca atttgtttcc 180
 aataaacagg gctgtgccgc cgttctgttg tactccgtct gtggttaggt tagtagtttt 240
 cttgatctcg ccccccacgc gtacctgttt tactactctc tgtttg 287

<210> 1326
 <211> 131
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1326

gtatgccnag cagaagaagc ttaaccnccc catccttccc accanngaca atcggttcgt 60
 tcccanaaan cgttgagctc caggaggggc cgccgtgagt ncaaggcaaa aaagatctct 120
 gaggaggaat a 131

<210> 1327
 <211> 155
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1327

gaagagcttg acattgatgt gcttgtgcat ggcgagcctg aganaaacga tatggttgag 60
 tacttcggtg agcagctcct ccggttttgc gttcactgcc aatggctggg tgnagtctta 120
 tgggtcaang tgcgtcaagc ctccgatcat ctacg 155

<210> 1328
 <211> 264
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 1328

 gacgcgtggg tccacaccta tcacgcgccg tgcgccgtct cctccgctcc cgtcgcaccg 60
 aaagatgncg tcccacattg ttggataccc tcgcatgggc cccaagaggg agctcaagtt 120
 tgcacttgag tctttctggg atgggaagag caccgtgagg attggagaag gttgtacgac 180
 ctgaggcagt attggaacag atgntgatnt ggataagtac atcccacaac actttgtnta 240
 tacagtcttg cacatgcant gggt 264

<210> 1329
 <211> 270
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 1329

 aggaggctaa gngctcggg gttgataccg tgccagtact tgttggacca gtctcgtacc 60
 tgttgctctn caaagcccgc caagggtgtg gagaagggat tccctcttcg ttcccttctt 120
 agcagcatcc gccagtgct anaaggaggt cattgctgag ttgaaggcag ctggnngcctt 180
 catggattca ggttgatgag cccactctng tcctcgnacc tggatgctga caaattgggc 240
 tgctttntct gctgcatacg agaantggaa 270

<210> 1330
 <211> 268
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <400> 1330

 ggngtgagga anggattccc tcttctttcc cttctnagca gcatgcntcc cantctanaa 60
 ngaggtcant gctgagggtg aggcagctgg ggcttcatgg attcagtttg atganccac 120
 tcttgctctc gaccttgatt ctgacaaatt ggcctgcatt ctctgctgca tacgcagaac 180
 ttgaatctgt actttctgga ttgantgtgc tgtngagann nactttgcng gtgttcctgc 240

tgantctaca agaccntnta tccntggg 268

<210> 1331
<211> 291
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 1331

ggtgaacccc gactgcggcc tcannacccg caagtacacg gaggtcaagc cncacctgac 60
caacatgggc tccgccgcta agctcatccg cacncagctc gccagcgcca agtgagcacc 120
ttttttttgc ctttttcggt tccgaggagg ggtcgtcgat gccaatattgt ttccaataaa 180
cagggctgtg nccgccgttc tggtgtactc cgtctgtggt taggttagta nttttcatga 240
tctcgccnca cgcggtacct gntttactat ctctgtttgg nggttnctga g 291

<210> 1332
<211> 128
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 1332

ctnccctctc acctatcatc gccgctgcgc cgtctcctcc gctcccgctc nccggaaaaga 60
tggccgtccc acattgttgg ataccctcgc atgggccccca agaggagct caagtttgca 120
cttgagtc 128

<210> 1333
<211> 286
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 1333

cacctatcat cgcgcgtncn ccgtctcctc cgtcccgctc gtncggaaan atggngtccc 60
acattgntgg atancctcgc atgggccccca agaggagct caagtttgca cttgagtctt 120
tctgggatgg gnagagnacc gctgnaggat ctgganaagg ttgctaccga cntcaagggc 180
cagtancng angccngatg ggntgatgct gggatcaagt acatccncca gcaacaacct 240
tgctctactt atgacaaggc ccttgacaca ctgccatgct cgcggt 286

<210> 1334
 <211> 156
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1334

ctacgacatc cactctcttag gattccctcc acagaggaga tcgcagaccg cgtcgagaag 60
 atgctcgccg tgctncgaca ccaacatcct ctgggtgaac cctgactgtg gtctcaagac 120
 acgcaagtac acggaggtca agcccgccct gaacaa 156

<210> 1335
 <211> 185
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1335

ttnangttga tgctcttgct aaggcattgg ctggtcaaaa ggntgaggct tattcncagc 60
 aaatgctgag ctgaggcctc gaggaatcct caccocgtgt gaaccaatgn agaagtccag 120
 aaggctgctg ctgctctcaa gggctctgac caccgccgtg naaccaacgt tatgctagat 180
 tggat 185

<210> 1336
 <211> 139
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1336

ggaggttgag gatcttgagg ctgctggtat tcaggtgatc cagnttgatg aggcagctct 60
 aaggganngt ngccactgcg caagtcccag agcatgcatt ctacctggac tgnngctgtcc 120
 actctttcag antcaccaa 139

<210> 1337
 <211> 114
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<400> 1337

cgaggatctt gaggctgggtg gtattcaggt tatccaaatc gacgaggctg cactgagaga 60
agggctgccg ctccgcaagg ctgaacatgc atctaactgg actgggctgt ncca 114

<210> 1338
<211> 254
<212> DNA
<213> Zea mays

<400> 1338

acggagggtca agcccgccct gaccaacatg gtctccgctg ctaagctcat tcgcacccag 60
ctcgccagcg ccaagtgagc accttttttt gccttttttcg tttccgagga gggcgctcgtc 120
gatgcccaatt tgtttccaat aaacagggtc cccccctgt gcccgccgtt ctgttgtgct 180
ccgtctgtgg ttaggttact agttttcttg atctcgcccc cacgcggtac ctgttttact 240
atctgtttgg tgggt 254

<210> 1339
<211> 289
<212> DNA
<213> Zea mays

<400> 1339

cggagggtcaa gcccgccctg accaacatgg tctccgcccgc taagctcatc cgcacccagc 60
tcgccagcgc caagtgagca cttttttttt gccttttttcg tttccgagga gggcgctcgtc 120
gatgcccaatt tgtttccaat aaacagggtc gtgccgccgt tctgttgtac tccgtctgtg 180
gttaggttag tagttttctt gatctcgccc ccacgcggta cctgtttttac tactctctgt 240
ttggtgggtt ctgaggaagt tgcccgtgta ttgtatcgta aaaaccgag 289

<210> 1340
<211> 252
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 1340

cccgactgcg gcctacaaga cccgcaanta cacggaggtc aagcccgccc tgaccaacat 60

ggtctccgcn gctaagctca tcngcacnca gctcgccagc gccaaagtng cacctttttt 120
 ttgccttttt cgtttccgan gagggcntcg tngatgccaa tttgtttcna ntaancaggg 180
 ntgtncagc cgttctgttg nactccgtct gtgggttaggt tagtagtttt cttgatctcg 240
 cccccaagcg nt 252

<210> 1341
 <211> 79
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <400> 1341

ctgcgaggatc caggacacca cccagatcca naccacatg tgtacncaa cttcaacgac 60
 ntentcnant ccatnanng 79

<210> 1342
 <211> 260
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <400> 1342

cggagggtcaa gcccgccctg accaacaatgg tctccgctgn taagctcatt cgcacccagc 60
 tcgncagcgc caagtgcgca cctttttttg cctttttcgt ttccgaggag ggcgtcgctcg 120
 atgccaatgt gtttccaata aacagggtc ccccccgtg cccgngttc tgttgtgtc 180
 cgtctgtggt taggttacta gttttcttga tctcgcccc acgcggtacc tgttttacta 240
 tctgtttggt ggttttctgag 260

<210> 1343
 <211> 124
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <400> 1343

caagggtctt gcaccaccgc cgtgcgacca acgttagtgc tagattggat gccacgcaga 60
 agangttaac ctccccatcc ttcccaccan tacaatcggg ttcgttccca caaacggttn 120
 agct 124

<210> 1344
 <211> 505
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1344

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agnttggttnn agggggggng atnnaaaggc natctcgtac cgggccggaa ttcccgggtc   60
gacccaacgcg tccggctgaa ctagagtcgg cattctctgg attgaatgtg cttattgaga  120
catactntgc ngacattcct gctgagtcct acaagaccct cacgtcattg agtggtgtga  180
ctgcttaacgg ttttgatctt atccgtggag ccaagaccct tgatcttatc aggagcagct  240
tcccctctgg gaagtacctc ttcgctggtg ttgtggatgg acgcaacatt tgggctgatg  300
atcttgctgc atctcttagc actcttcagt ctcttgaggc cgttgctggc aaggacaaac  360
ttgtggtgtc aacctcctgc tcaactgatgc acaccgccgt gatcttgtaa atgagactaa  420
actggatgaa tgaagattaa gtcattggctt gcatttgctg cccaaaagggt tgtcgagggt  480
aatgcccttg cgaagctttg gcaag                                     505

```

<210> 1345
 <211> 300
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1345

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aaacttgctgg tgtcaacntc ctgctcaactg atgcanaccg ctgttgacct tgtaaattgag   60
actaagctgg atgatgagat taagtcatgg cttgcatttg ctgccccaaa gggttggtgag  120
gttaatgccc ttgccaaggc nttggcaggc caaaaggatg aggtctactt tgcagccaat  180
gctgctgctc aggcctcaag gagatcatcg cccagggtga caaacganga ggtccagaag  240
gctgcagctg ctttganggg atctgaccac cgccgttcta ccaactgtntc tgctagattg  300

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<210> 1346
 <211> 290
 <212> DNA
 <213> Zea mays

<400> 1346

ggacgcaaca tttgggctga tgatcttgct gcatctctta gcactcttca ttctcttgag 60
 gctgttgctg gcaaggacaa acttgtggtg tcaacctcct gctcactgat gcacaccgct 120
 gttgaccttg taaatgagac taagctggat gatgagatta agtcatggct tgcatttgct 180
 gcccaaaagg ttgttgaggt taatgccctt gccaaaggctt tggcaggcca aaaggatgag 240
 gtctactttg cagccaatgc tgctgctcag gcctcaagga gatcatcgcc 290

<210> 1347
 <211> 259
 <212> DNA
 <213> Zea mays

<400> 1347

aacctcctgc tcaactgatgc acaccgctgt tgaccttgta aatgagacta agctggatga 60
 tgagattaag tcatggcttg catttgctgc ccaaaagggt gttgaggta atgcccttgc 120
 caaggctttg gcaggccaaa aggatgaggt ctactttgca gccaatgctg ctgctcaggc 180
 ctcaaggaga tcatcgccca ggggtgacaaa cgaggaggctc cagaaggctg cagctgcttt 240
 gaggggatct gaccaccgc 259

<210> 1348
 <211> 296
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1348

tgcttatcga gacatacttc gctgatattc ctgctgagtc ctacaagacc ctcacatcat 60
 tgagtgggtg gactgcttac ggtttcgata ttatccgtgg agccaagacc cttgatctta 120
 tcaggagcag cttccccctc gggaagtacc tcttcgctgg tgttgtagat ggacgcaaca 180
 tttgggctga tgatcttgct gcatctctta gcactcttca ttctcttgan gctgttgctg 240
 gcaaggacaa acttgtggtg tcaacctcct gctcactgat gcacaccgct gttgac 296

<210> 1349
 <211> 272
 <212> DNA
 <213> Zea mays

<400> 1349

```
cctgctgagt cctacaagac cctcacgtca ttgagtgggtg tgactgctta cggttttgat 60
cttatccgtg gagccaagac ccttgatctt atcaggagca gcttcccctc tgggaagtac 120
ctcttcgctg gtgtttgtgga tggacgcaac atttgggctg atgatcttgc tgcattctctt 180
agcaactcttc agtctcttga ggccgttgct ggcaaggaca aacttgtgggt gtcaacctcc 240
tgctcactga tgcacaccgc tgttgatctt gt 272
```

<210> 1350

<211> 265

<212> DNA

<213> Zea mays

<400> 1350

```
acgtcattga gtgggtgtgac tgcttacgggt tttgatctta tccgtggagc caagaccctt 60
gatcttatca ggagcagctt cccctctggg aagtacctct tcgctgggtgt tgtggatgga 120
cgcaacattt gggctgatga tcttgctgca tctcttagca ctcttcagtc tcttgaggcc 180
gttgctggca aggacaaact tgtgggtgtca acctcctgct cactgatgca caccgctggt 240
gatcttgctca atgaaaactaa gctgg 265
```

<210> 1351

<211> 238

<212> DNA

<213> Zea mays

<400> 1351

```
gtagatggac gcaacatttg ggctgatgat cttgctgcat ctcttagcac tcttcattct 60
cttgaggctg ttgctggcaa ggacaaactt gtgggtgtcaa cctcctgctc actgatgcac 120
accgctgttg accttgtaaa tgagactaag ctggatgatg agattaagtc atggcttgca 180
tttgctgccc aaaaggttgt tgagggttaat gcccttgcca aggctttggc aggccaaa 238
```

<210> 1352

<211> 226

<212> DNA

<213> Zea mays

<400> 1352

gatcttgctg catctcttag cactcttcag tctcttgagg ccgttgctgg caaggacaaa 60
 cttgtggtgt caacctcctg ctcaactgat cacaccgctg ttgatcttgt caatgaaact 120
 aagctggatg atgagattaa gtcattggctt gcatttgctg cccaaaaggt tgctgagggt 180
 aatgcccttg cgaaggcttt ggcaggccaa aaggatgagg cttact 226

<210> 1353

<211> 248

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1353

cctgctgagt cctacaagac cctcaentca gggantngtg tgactgctta cggttttgat 60
 cttatccgtg gagccaagac ccttgatctt atcaggagca gcttcccctc tgggaagtac 120
 ctcttcgctg gtgttggtga tggacgcaac atttgggctg atgatcttgc tgcatctctt 180
 agcactcttc agtctcttga ggccgttgct ggcaaggaca aacttggtgt gtcaacctcc 240
 tgctcatg 248

<210> 1354

<211> 203

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1354

cggacgnttg gcgcgagtgc tccctcctct gngccatgg cgctctctgt ggagangacc 60
 tcgtctggan cngagtacaa gttcaaggct tctcncangc ggacttcggc cgcctcnaga 120
 ttgagctncc cnagttcgaa atgcccgncc tcatgncctnc nccncngatt nccgnccttn 180
 aaancttnnn nagecgaaaa ttc 203

<210> 1355

<211> 96

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1355

ttgggcttna aaactnacct ngntttaage gcattaccat taaaccccaa acnnancgct 60

tggtgtttcc ccagacnaaa actgngatan anntgc

96

<210> 1356

<211> 518

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1356

aagntctntn nttaaggagg naaatnnaat tnttgtcccg gtccggaatt cccgggtcga 60
cccacgcgtc cgcnnacgcg tncgctnacn cgtccgcaca ngcgtcngcn canncgttcg 120
cccacnacgg ncgatnnttc natttccca tctcgtcana ttcaattcgc cgagttcttc 180
ctctctctgc tcgncatggc gctctatgtg ganaanacct cgtcatggac gggagtacaa 240
ggtcaaggat ctatagcang cngacttagh tgcgcttgan attgatctgg ccnaggncga 300
aatgcncgna ctcatnggnt gccncgcca gtttggcccg ncnagccct ttggcgntgc 360
taggatctng gnntctcttt acatgaccat tnacacnggn gaagtgattg agacnnttac 420
cnggctcgtt gccgaggtnc nggtgtgatc ntncacatc ttattnacac angaccacgc 480
ttnaancggn attggtncgc ganttggtg canaaatt 518

<210> 1357

<211> 447

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1357

cggcaagatc cccgacccgg agtccaccga caacgctgag ttcaagateg tgctcacnat 60
catccgcgac gggctcaagg ctgaccccaa gaagtaccgc aagatgaagg agaggcttgt 120
cggcgtctct gaggagacca ccacgggtgt caagaggctc taccagatgc aggagaccgg 180
cgccctcttc ttccctgcc aatacgtcaa cgattccgtc accaagagca agtttgacaa 240
cctgtatggt tgccgccact cgctccctga tgggtctgatg agggccactg acgttatgat 300
cgccggaaag gttgccgtgg tctgcggata cgggtgatgtc ggcaagggtt gtgctgctgc 360
ctcaagcagg ctggtgcccg tgtcattgtg accgagatcg accccatctg tgcccttcaa 420
gctctgatgg anggtcttta ngctctt 447

<210> 1358
 <211> 515
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1358

```

gnnnagnnnn nnnannnttt gnangggggg gggaagagan attttancgg tccggattcc 60
cgggtcgacc cacgcgtccg ccatcatccg cgacgggctc aaggctgacc ccaagaagta 120
ccgcaagatg aaggagaggc ttgtcggcgt ctctgaggag accaccacgg gtgtcaagag 180
gctctaccag atgcaggaga cgggcgccct cctcttcctt gccattaacg tcaacgattc 240
cgtcaccaag agcaagtttg acaacctgta tggttgccgc cactcgctcc ctgatgggtct 300
gatgagggcc actgacgtta tgatcgccgg taaggttgct gtggtctgcg gatacgggtga 360
tgtcggcaag ggttgtgctg ctgccctcaa gcaggctggt gcccgtgtca ttgtgaccga 420
gatcgacccc atctgtgccc tccaggctct gatggaaggg tcttcaggtc cttcccttgg 480
aagacgttgt ctctgaactg acatcttcgt gacca 515

```

<210> 1359
 <211> 530
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1359

```

ggnnnagggt gntttngtcc naanntntnt ttnncttctg ccngtaccgg tccggattcc 60
cgggtcgacc cacgcgtccg cccacgcgtc cgtgggtgac cacatgagga agatgaagaa 120
caatgccatt gtctgcaaca ttggccactt tgacaatgaa attgatatgc tcggccttga 180
gacctaccct ggcgtcaagc gcatcaccat caagccccag actgaccgct ggggtgtccc 240
cgagaccaac actggcatca ttgtccttgc tgagggtcgc ctgatgaacc ttgggtgtgc 300
tactggccat cctagctttg tcatgtcctg ctcatcact aaccagggtca ttgccaact 360
tgaactgtgg aaggagaaga gctctggcaa gtatgagaag aagggtgatg tgctccccaa 420
gcaccttgat gagaagggtt ctgctctcca cttgggcaag cttggtgcc aagctgaccaa 480
gctcaccaag tctnagccga ctacatnanc gtgcccacgc agggtcctac 530

```

<210> 1360
 <211> 501
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1360

```

ggnnngnnngn aattctaach tncngcagcc tgcanaagtc canggtccac ccacncgtcg   60
ncgaggagga gtacgagaag accggcaaga tccccgaccc ggagtccacc gacaacgcga   120
gttcaagatc gtgctcacca tcatccgcga cggggtcaag gctgacccca agaagtacgc   180
aagatgaagg agaggcttgt cggcgtctct gaggagacca ccacgggtgt caagagctct   240
accagatgca ggagaccggc gccctcctct tccctgccat taacgtcaac gattcgtcac   300
caagagcaag tttgacaacc tgtatggttg ccgccactca ctccctgatg gtctatgagg   360
gccaccgacg ttatgatcgc cggtaagggt gccgtggtct gcggatacgg tgagttggca   420
agggttgtgc cgctgcactc aaancangct gggtgcccgt gtcaantgtg acgaagattt   480
aaccaatct gcgncctcca a                                           501
  
```

<210> 1361
 <211> 473
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1361

```

cgccgnaag gttgctgtgg tctgcggata cggatgatgc ggcaaggggt gtgctgctgc   60
cctcaagcag gctgngcccc gtgtcattgt gaccgagatc gaccccatct gtgccctcca   120
ngctctgatg gagggctctt angtccttcc cttggaggac gttgtctctg aagctgacat   180
cttcgtgacc accactggca acaaggatat catnatggat gaccacatga ggaagatgaa   240
gaacaatgcc attgtctgca acattggcca ctttgacaat gaaattgata tgctcggnc   300
tnanacctac cctgncgtca agcgcacnac catcaagccc cagactgacn cgctggntgg   360
nccccgagac caacactggg catcattgtc cttgctgaag gtcggctgat naaccttgng   420
tgttctactg ggcatcctan cttttgncat gtctgggtcat ttactaaacc aag       473
  
```

<210> 1362
 <211> 524
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1362

```

gnnnnnnggn ggngaattgtc tnccttngtcg tgccgggtcca gcgatacagg ggccccggac   60
ncgtccggga ncnatntccc catctcccag atccaattcg cgagttctcc ctctcttgcc   120
gccatggcgc tctcngtgga gaagacctcg tctggacggg agtacanggt caaggatctc   180
tcgcaggcgg acttcggccg cctcgagatt gagctggccg aggtcgaaat gcccggcctc   240
atggcgtgcc gcgccgagtt cggcccgtcc aagcccttcg ccggcgctag gatctcgggg   300
tctctccaca tgaccatcca ngaccgccgt cctcatcgag accctcaccg cgctcggcgc   360
cgangtcgcg tgggtgctct gcaacatctt ctccacgcag gaccacgccg ccgcgcgcat   420
cgcgcgcgac tcggccgccg tgttcgcctg gaanggggaa accctcgang agtactggtg   480
gtgcancgaa cgctgcctcg actggggggcg angcgggccg cccc                               524

```

<210> 1363
 <211> 478
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1363

```

gnnnnnnngna acttaagtng cagggccggt cangaataac gggncgaccc acgcgtccgt   60
tccatttccc catctcccag atccaattcg cgagttctcc ctctcttgcc gccatggcct   120
ctctgtggag aagacctcgt ctggacggga gtacaaggtc aaggatctct cgcaggcgac   180
ttcggccgcc tcgagattga gctggccgag gtcgaaatgc ccggcctcat ggcgtgcgcg   240
ccgagttcgg ccgctcgaag cccttcgctg gcgctaggat ctcggggtct ctccaatgac   300
catccagacc gccgtcctca tcgagacct caccgcgtc ggcgccgang tccgtggtgc   360
tcttgcaaca tcttctccac gcaggaccac gccgccgccg ccatcgcgcg cgatcggccg   420
ccgtgttcgc ctggaagggg gaagacctcg aggagtactg gtggtgcacc gacgtgc     478

```

<210> 1364
 <211> 528

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <400> 1364

gnnnngnnnnng nnnnnnnaag gtnnntgttn ngnaaggagt tttatggnat actcgtccgg 60
 anttcccggg tcgacccacg cgtccgcccc atctcccaga tccaattcgc gagttctttt 120
 tcctctgccc ccatggcgct ctctgtggag aagacctcgt ctggacggga gtacaaggtc 180
 aaggatctct cgcaggcgga cttcggccgc ctcgagattg agctggccga ggtcgaaatg 240
 cccggcctca tggcgtgccg cgccgagttc ggcccgtcca agcccttcgc cggcgctagg 300
 atctcggggg ctctccacat gaccatccag accgccgtcc tcatcgagac cctcaccgcg 360
 ctcggcgcgc aggtccgctg gtgctcctgc aacatcttct ccacgcagga ccacgccgcc 420
 gccgccatcg cgcgcgactc ggccgccgtg ttgcgctgga agggggagac cctcgaggag 480
 tactggtggt gcacccgagc gctgnctnga ctggggcnag gcggggccg 528

<210> 1365
 <211> 354
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <400> 1365

cgtgccgcgc cgagttcggc ccgtccaagc ccttcgccgg cgctaggatc tcggggtctc 60
 tccacatgac catccagacc gccgtcctca tcgagaccct caccgcgctc ggcgcgcagg 120
 tccgctggtg ctctgcaac atcttctcca cgcaggacca cgccgccgcc gccatcgcg 180
 gcgactcggc cgccgtgttc gcctggaagg gggagaccct cgaggagtac tgggtggtgca 240
 ccgagcgctg cctcgactgg ggcgaggcgg gcggccccga cctcatcgtc gacgacggcg 300
 gcgacgccac gctgctcatc cagcagggtg tcaaggccga ggaggattac nana 354

<210> 1366
 <211> 476
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <400> 1366

ggggngnaa cttcanntcc cagnngccgg tcaagaatta acgggtcgac gcnccgctcc 60
 ggctcaagge tgaccccaag aagtaccgca agatgaagga gaggcttgtc ggcgtctctg 120
 aggagaccac cacgggtgtc aagaggctct accagatgca ggagaccggc gccctcctct 180
 tccctgccat taacgtcaac gattccgtca ccaagagcaa gtttgacaac ctgtatgggt 240
 gccgccactc gctccctgat ggtctgatga gggccactga cgttatgatc gccggaaagg 300
 ttgccgtggg ctgcccgtac ggtgatgtcg gcaaggggtg tgctgctgcc ctcaagcagg 360
 ctggtgcccc tgtcattgtg accgagatcg accccatctg tgccctccag gctctgaatg 420
 ganggtcttc aagtccttcc cttggaggac gttgtctcct gaagctgnca tcttng 476

<210> 1367

<211> 468

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1367

atcatgggtg accacatgag gaagatgaag aacaatgcca ttgtctgcaa cattggccac 60
 ttgacaatg aaattgatat gctcggcctt gagacctacc ctggcgtcaa gcgcatcacc 120
 atcaagcccc agactgaccg ctgggtgttc cccgagacca aactggcat cattgtcctt 180
 gctgagggtc gcctgatgaa ccttgggtgt gctactggcc atcctagctt tgtcatgtcc 240
 tgctcattca ctaaccaggc cattgcccac cttgaactgt ggaaggagaa gagctctggc 300
 aagtatgaga agaaggtgta tgtgcttccc aagcaccttg atgagaaagg tgctgctctc 360
 acttggggca agctttggtg ccaagcttac caaacttaac caagtcttaa ggccgactac 420
 attaaccgtg cccgatcgaa gggtccttac aagcctgccc actnaccg 468

<210> 1368

<211> 484

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<400> 1368

tttctttgcc ctggccggta ccanatcana gaattcccgg gncgaccac gcatcngct 60
 caaggctgac cccaagaagt accgcaagat gaaggagagg cttgtcggcg tctctgagga 120

gaccaccacg ggtgtcaaga ggctctacca gatgcaggag accggcgccc tcctcttccc 180
 tgccattaac gtcaacgatt ccgtcaccaa gagcaagttt gacaacctgt atgggtgccg 240
 ccactcgctc cctgatggtc tgatgagggc cactgacgtt atgatcgccg gaaaggttgc 300
 cgtgggtctgc ggatacgggtg atgtcggcaa gggttgtgct gctgccctca agcaggctgg 360
 tgcccgtgtc attgtgaccg agatcgacce catctgtgcc tccanggctc tgaatggaag 420
 gtcttcangt ccttccttg gaaggacgtt ggtctccgaa agctgacatc ttcgtgacna 480
 acaa 484

<210> 1369
 <211> 416
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <400> 1369

tgctcggcct tgagacctac cctggcgctca agcgcatcac catcaagccc cagactgacc 60
 gctgggtgtt ccccgagacc aacactggca tcattgtcct tgctgagggg cgccctgatga 120
 accttgggtg tgctactggc catcctagct ttgtcatgtc ctgctcattc actaaccagg 180
 tcattgcca acttgaactg tggaaggaga agagctctgg caagtatgag aagaaggtgt 240
 atgtgctccc caagcacctt gatgagaagg ttgctgctct ccacttgggc aagcttggtg 300
 ccaagctgac caagctcacc aagtctcagg ccgactacat cagcgtgccg atcgaggggc 360
 cctacaagcc tgccactacc ggtactaggc aagccaggca cacggcttgc agctna 416

<210> 1370
 <211> 452
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <400> 1370

attgatatgc tcggccttga gacctaccct ggcgtcaagc gcatcaccat caagccccag 60
 actgaccgct ggggtgtccc cgagaccaac actggcatca ttgtccttgc tgagggtcgc 120
 ctgatgaacc ttgggtgtgc tactggccat cctagctttg tcatgtcctg ctcatcact 180
 aaccagggtca ttgcccaact tgaactgtgg aaggagaaga gctctggcaa gtatgagaag 240

aagggtgatg tgctcccaaa gcaccttgat gagaagggtg ctgctctcca ctggggcaaa 300
gcttggtgcc aagctgacca agctcaccaa gtcttaagcc gactacatca gcgtgccgat 360
cganggtccc tacaagcctg ccactaccgg tactangcaa gccagcacac ggcttgacgc 420
ttactcggcc cgttgtgtgc tatgaagttc ct 452

<210> 1371
<211> 481
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<400> 1371

gcaagatgaa ggagaggctt gtcggcgtct ctgaggagac caccacgggt gtcaagaggn 60
nctaccagat gcaggagacc ggcgccctcc tnttcctgc cattaacgtc aacgattccg 120
tcaccaagag caagtttgac aacctgtatg gntgccgcca ctgctccct gatggtctga 180
tgagggccac tgacgttatg atcgccggtg aggntgctgn ggtctgcgga tacgngatg 240
tcggcaaggg ttgngctgct gccctcaagc aggctggtgc ccgtgtcatt gggaccgaga 300
tcgaccccat ctgngccctc caaggctctg atggagggnc ttcaggncc tcccttgag 360
gacgnngctn tgaaactgac atcttcggga ccaccactgg caacaaggat atcatcangg 420
gtgaccacat gaaggaagat gaagaacaaa gccaanngcn gggaacaatn ggccaanttg 480
a 481

<210> 1372
<211> 445
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<400> 1372

cgccgtcctc atcgagaccc tcaccgcgnt cggcgccgag gtccgctggt gtcctgcaa 60
catcttctcc acgcaggacc acgcgccgc cgccatcgcg cgcgactcgg ccgccgtgtt 120
cgcttgaag ggggagaccc ttgaggagta ctggtggtgc accgagcgt gcctcgactg 180
gggcgaggcg ggcggccccg acctcatcgt cgacgacggc ggcgacgcca cgctgctcat 240
ccacgaggggt gtcaaggccg aggaggacta cgagaagacc ggcaagatcc ccgatccgga 300

gtcaccgaca acgctgagtt caagatcgtg ctnaccatca ttccgcgaan ggctnaaagn 360
 ttaccccaag aagtcccga aaggataaag aaaagcttgt cggcgtnttt taagagacca 420
 cacnggtgtn aaaaggnttt acaga 445

<210> 1373
 <211> 512
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1373

ggggttggtg nnnnggtggg naaattatnt gttgtaccgg tccggaattc ccgggtcgac 60
 ccacgcgtcc gccacgcgt ccgtcacgc gttcgccan nntccagat ncaattcgcg 120
 agttctgggn tgctctgccg ccattggtgt ctctgtggag aagacctcgt ctggacggga 180
 gtacaaggtc aaggatctct cgcaggcgga cttcggtcgc ctcgagattg agctggccga 240
 ggtcgaaatg cccggcctca tggcgtgccg cgccgagttc ggcccgtcca agcccttcgc 300
 cggcgctagg atctcggggg ctcttcacat gaccatccag accgccgtcc tcacgagac 360
 cctcacgcgc ctcggcgccg aggtccgctg gtgctcctgc aacatcttct ncacgcagga 420
 ccacgccgtc ggccgcatcg ngcgcgactc ggnccgctg ttgcctgga agggggagac 480
 cctttganga gtactggtgg tncaccnaac cg 512

<210> 1374
 <211> 523
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <400> 1374

agaggctngt tttgantggg gattaanggn nnttaatgg aaagctcttc cggncggcn 60
 nccccgctcg acccangenn tncanntnt ggagggtctt naggtcctnc ncttgagga 120
 cgttgtctnn gnagctgaen gnttcgtgac caccactggc aacaaggata tcatcatggt 180
 tgaccacatg aggaagatga agaacaatgc cattgtctgc aacattggcc actttgacaa 240
 tgaaattgat atgctcggcc ttgagaccta ccctggcgtc aagcgcatna ccatcaagcc 300
 ccagactgac cgctgggtgt tccccgagac caacactggc atcattgtcc ttgctgaggg 360

tcgcctgatg aaccttgggt gtgctactgg ccatcctagc tttgtcatgt cctgctcatt 420
 cactaaccag gtcattgccc aacttgaact gtggaaggag aagagctctg gcaagtatga 480
 gaaagaangt gtatgtgctt cccaacacct ttgatgagaa ggt 523

<210> 1375
 <211> 441
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <400> 1375

cccagatcca attcgcgagt tctccctect ctgccgccat ggcgctctct gtggagaaga 60
 cctcgtctgg acnggagtag aaggtcaagg atctctcgca ggcggacttc ggccgcctcg 120
 agattgagct ggccgaggtc gaaatgcccg gcctcatggc gtgccgcgcc gagttcggcc 180
 cgtccaagcc cttcgcgggc gctaggatct cggggtctct ccacatgacc atccagaccg 240
 ccgtcctcat cgagaccctc accgcgctcg gcncccgagg tccgctggtg ctcttgcaac 300
 atcttctnca cgcaggacca cnccttcgnc ngcatcgcg cgcactcgnc cgccgtgttc 360
 gcctggaaag ggggagnccc tcnaggagta ctggtggttc accnagccgc ttgccttgnc 420
 tggggccnag gcngncggnc c 441

<210> 1376
 <211> 488
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <400> 1376

ggnnnnnngg naacttnaac tnccagcgcc aggtaacggt caaagaattc ccgggtcgac 60
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